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(71) Applicant (for all designated States except US): MEDICAL RESEARCH COUNCIL [GB/GB]; 20 Park Crescent, London W1N 4AL (GB).

(72) Inventors: and

(75) Inventors, Applicants (for US only): SIBSON, David, Ross [GB/GB]; 37 Grimsdells Lane, Amersham, Buckinghamshire HP6 6HF (GB). GROSS, Jacqueline [GB/GB]; 47 Boxmoor Road, Kenton, Middlesex HA3 8LH (GB). HADFIELD, Kathryn, Mary [GB/GB]; 5 Carlisle Terrace, St Ives, Huntingdon, Cambridgeshire PE17 4PQ (GB). HOWELLS, David [GB/GB]; 77 Puttocks Drive, Welham Green, Hatfield, Hertfordshire AL9 7LW (GB). STARKEY, Michael [GB/GB]; 27 Creasy Close, Abbots Langley, Hertfordshire WO5 0HS (GB). KELLY, Maria [IE/GB]; 24A Oxford Road, Ealing, London W5 3ST (GB). SHAW, Diana [GB/CA]; 342 Glacier Hall, University of Calgary, 2500 University Drive NW, Calgary, Alberta T2N 1N4 (CA).

(74) Agent: BIZLEY, Richard, Edward; Hepworth Lawrence Bryer & Bizley, 2nd Floor Gate House South, West Gate, Harlow, Essex CM20 IJN (GB).

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(57) Abstract

This invention provides a nucleic acid fragment encoding a gene product or portion thereof and comprising any one of: (a) a sequence selected from SEQ ID Nos 1 to 1193 from the attached sequence listings; (b) an allelic variation of a sequence as defined in (a); or (c) a sequence complementary to (a) or (b). The invention includes uses of such fragments, and gene products corresponding thereto.

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HUMAN NUCLEIC ACID FRAGMENTS, ISOLATED FROM BRAIN ADRENAL TISSUE, PLACENTA OR BONE NARROW

This invention relates to new nucleic acid fragments encoding gene products or portions thereof, which fragments are obtainable from human nucleic acid populations, individual members of such populations being present in widely varying amounts.

Situations are increasingly arising in which it is necessary to study complex nucleic acid or polynucleotide populations. For example, it is now widely appreciated that an invaluable resource could be created if the entire sequence of the genomes of organisms such as man were determined and the information available. The magnitude of such a task should not, however, be underestimated. Thus, the human genome may contain as many as 100,000 genes [a very substantial proportion of which may be expressed in the human brain (Sutcliffe, Ann. Rev. Neurosci. 11:157 (1988))]. Only a very small percentage of the stock of human genes has presently been explored, and this largely in a piecemeal and usually specifically targeted fashion.

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There has been much public debate about the best means of approaching human genome sequencing. Brenner has argued (CIBA Foundation Symposium 149:6 (1990)) that efforts should be concentrated on cDNAs produced from reverse transcribed mRNAs rather than on genomic DNA. This is primarily because most useful genetic information resides in the fraction of the genome which corresponds to mRNA, and this fraction is Moreover, techniques for a very small part of the total (5% or less). generating cDNAs are also well known. On the other hand, even supposing near perfect recovery of cDNAs corresponding to all expressed mRNAs, some potentially useful information will be lost by the cDNA approach, including sequences responsible for control and regulation of Nonetheless, the cDNA approach at least substantially reduces the inherent inefficiencies resulting from analysis of repeated sequences or non-coding sequences in an approach which depends upon genomic DNA sequencing.

Recently, the results of a rapid method for identifying and characterising new cDNAs has been reported (Adams, M.D. et al., Science 252, 1991, pp 1651-1656). Essentially, a semi-automated sequence reader was used to produce a single read of sequence from one end of each of a number of cDNAs picked at random. It was shown, by comparing the nucleic acid sequences of the cDNAs (or the protein sequences produced by translating the nucleic acid sequence of the cDNAs) to each

other and to known sequences in public databases, that each of the cDNAs picked at random, could be unambig ssly classified. The cDNAs could be classified as being either entir y new or as corresponding, to a greater or lesser extent, to a previously known sequence. identified in this way were further characterised and found to be useful in a variety of standard applictions, including physical mapping. Unfortunately, such a process is insufficient. The longer the process is pursued with any given population of cDNAs the less efficient it becomes and the lower the rate of identification of new clones. In essence, as the number of cDNAs which have already been picked rises, the probability of picking a particular cDNA more than once increases. This difficulty is exacerbated by the wide range of abundancies at which different cDNAs can occur, which abundancies can vary by several orders of magnitude. Thus, whereas some sequences are exceedingly rare, a single cDNA type may comprise as much as 10% of the population of cDNAs produced from a particular tissue (Lewin, B. Gene Expression, Vol. 2: Eukaryotic Chromosomes, 2nd ed., pp. 708-719. New The need to avoid missing rarer species in any York: Wiley, 1980). given population presents a considerable problem.

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Various approaches (so-called "normalisation" techniques) have been tried in addressing the problem of increasing the efficiency of examination of a mixed nucleotide population, for example, such a population as is to be examined in human genome sequencing.

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Thus, a standard PCR protocol can be used to amplify selectively cDNAs which are present at extremely low levels, if there is information about the sequence of those cDNAs. If not, a primer specific to the desired cDNA cannot be constructed and the desired cDNA cannot be selectively amplified. The standard PCR method is therefore inadequate if it is desired to characterise a number of unknown genes.

A second approach involves hybridization of cDNA to genomic DNA. At saturation, the cDNAs recovered from genomic/cDNA hybrids will be present in the same abundance as the genes encoding them. This will provide a much more homogenous population than the original cDNA library, but does not entirely solve the problem. In order to reach saturation in respect of the very rare sequences, it will be necessary to use huge quantities of cDNA, which need to be allowed to anneal to large amounts of genomic DNA over a considerable periods of time. Furthermore, cDNAs which are homologous to genes which are present in multiple copies in the genom will be over-represented.

A third approach exploits the second order reassociation kinetics of cDNA annealing to itself. After a long period of annealing, the cDNAs which remain single stranded will have nearly the same abundance, and can be recovered by standard PCR (see Patanjali, S.R. et al., PNAS USA 88, 1991, pp. 1943-1947; Ko, M.S.H., NAR 19, no.18, 1991, pp 5705-5711). The methods disclosed in these two publications, however, suffer from notable disadvantages. They are entirely dependent on the stringent physical separation of single stranded and double stranded DNA, require an elevated number of manual manipulations in each reaction, and necessitate protracted hybridisation times (up to 288 hours in the method of Patanjali et al.)

Yet a further approach in "normalising" a nucleotide population is described in co-pending British Patent Application No 91 15407.0, filed 15 17th July, 1991 by MRC, and involves a PCR process in which a mixture heterogenous DNA population and appropriate comprising a oligonucleotide primers is first formed and the DNA denatured, but before effecting a conventional PCR protocol the conditions are altered to allow the denatured strands of the more common DNA species to 20 reanneal together, whilst avoiding annealing of primers to the DNA strands. By this means, rarer species can subsequently be amplified in preference to the more common species.

This PCR normalisation method in general comprises the steps of:

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- (a) preparing a mixture comprising a heterogenous DNA population and oligonucleotide primers suitable for use in a PCR process, in which the DNA is denatured;
- 30 (b) altering the conditions to allow the denatured strands of the more common DNA species to reanneal, while preventing the annealing to the primers to the DNA strands;
- (c) further altering the conditions of the mixture in order to allow the primers to anneal to the remaining single-stranded DNA comprising the rarer DNA species; and
 - (d) carrying out an extension synthesis in the mixture produced in step (c).

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Advantageously, the method consists of a cyclic application of the above four steps.

It will be appreciated that the conditions may be altered by the alteration of the temperature of the reaction mixture. However, any conditions which affect the hybridisation of complementary DNA strands to one another may be varied to achieve the required result.

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Because the reannealing efficiency of any given DNA species will depend on the product of its concentration and time, the more abundant the sequence the greater the extent to which it will reanneal in any given time period. Once a DNA species has reached a certain threshold concentration it will no longer be amplified exponentially, as a significant amount will have annealed to the double stranded form before the priming step. Thus, as each individual DNA species is amplified by the process to its threshold concentration, the rate of amplification of that species will start to tail off. Eventually, therefore, all DNA species will be present at the same concentration.

The length of the reannealing step will determine how much DNA is present at the threshold concentration. Preferably, therefore, the duration of the reannealing step will be determined empirically for each DNA population.

In the PCR normalisation process in general, the DNA primers may be adapted to prime selectively a sample of the total DNA population. By using primers which will only prime a sample of the population, only that sample will be amplified and normalised. The total quantity of DNA generated will thereby be reduced, which means that the cycling times can be kept low. This ensures that the method is applicable to complex DNA populations such as cDNA populations. In addition, a first primer can be used which is adapted selectively to prime a sample of the total cDNA population, and a second primer which is a general primer. Advantageously, the general primer is oligo dT (each primed cDNA will then be replicated in its entirely, as the oligo dT primer will anneal to the poly-A tail at the end of the cDNA).

- In co-pending British Patent Application No 92 14873.3, filed by MRC 13th July, 1992, a new process is described which allows the study and identification of the individual members of a mixed or heterogenous population of nucleotide sequences perhaps of varying abundance. In preferred embodiments of the said process, the starting nucleic acid population is treated by:
 - (a) subjecting the nucleic acid to the action of a reagent,

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preferably an endonuclease which has its cleavage and recognition sites separated, which reagent cleaves the nucleic acid so as to produce double stranded cleavage products the individual strands of which overlap at cleaved ends to leave a single strand extending to a known extent;

- (b) ligating the cleavage products from (a) with a population of adaptor molecules to generate adaptored cleavage products, each of which adaptor molecules has a cleavage product end recognition sequence and the population thereof encompassing a range of adaptor molecules having recognition sequences complementary to a predetermined subset of the sequences of the cleavage-generated extending single strands; and
- (c) selecting and separating only those adaptored cleavage products resulting from (b) which carry an adaptor of predetermined recognition sequence.

A preferred endonuclease for use in step (a) of the above process is \underline{Fok} 1.

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An important feature of this process is the use of adaptor molecules. The adaptors used must have "overhanging" fragment recognition sequences which reflect or are complementary to the extending cleavage-derived sequences which the adaptors are designed to react with. It is also preferred that the adaptors used should end with a 5' hydroxyl group. The avoidance of a 5' phosphate group removes the risk of inappropriate ligation involving the adaptors.

Adaptor molecules may also contain a portion permitting specific sequence selection and separation (as in step (c) of the process) when a sequence is attached to the adaptor. For example, an adaptor can carry biotin, thereby permitting advantage to be taken of the biotin/avidin

reaction in selecting and separating desired adaptored molecules.

Additionally, adaptors preferably comprise a known and selected sequence such that specifically isolated adaptored molecules can be amplified by known techniques (such as PCR) using a primer complementary to the core sequence.

40 Preferably the adaptors are short double-stranded oligonucleotides which can be joined to the ends of cleavage products. They will have been chemically synthesised so that their sequence can be predetermined

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and so that large concentrations can be easily produced. They may also be chemically modified in a way which allows them to be easily purified during the process. As mentioned above, ideally their 5' ends will be unphosphorylated so that once joined to fragments the adaptored end of the latter will no longer be able to participate in further ligation reactions.

It is preferred that the adaptor cleavage product end recognition sequences are on the 5' end of the longest oligonucleotide strand making up the preferred adaptor molecules, are at least 3 nucleotides in length and with totally random bases at the single-stranded position(s) two nucleotides in from the 5' end. This then allows selection to be performed both during the joining reaction and during subsequent priming reactions. Then, because the final degree of selection is a result of the product of the degrees of selection achieved at these two stages, maximum selection can be achieved per adaptor/primer available.

Adaptor strand extensions on the 5' end of the longest oligonucleotide also facilitate the use of modified oligonucleotides for separation purposes. Preferably, the short oligonucleotide will be modified at its 5' end. This has the double benefit of requiring just one modified oligonucleotide for all possible single-stranded extensions that are used, and also placing the modification at a position where it cannot interfere with ligation or subsequent priming reactions.

Although only one type of adaptor is required per ligation reaction, it is preferred that adaptors covering all possible reactions in a chosen subset of sequences be present, because then the opportunity for fragments in the chosen subset to ligate to each other is minimised. It is also preferred that the chosen specific adaptor, carrying a predetermined recognition sequence, should not only be different from the other adaptors in its single-stranded extension, but also different in the rest of its sequence since this allows orientation to be introduced which is useful in subsequent steps. It is therefore also preferred that this adaptor has a modified oligonucleotide to facilitate its separation with the cleaving products to which it joins.

The above "adaptoring" process can be used to generate categories or subsets of sequences by making some of the adaptors specific in some way, and selecting and separating as in step (c). In this way subsets of sequences can be provided depending upon the specific adaptor

chosen, e.g. for use in subsequent nucleotide sequencing. This facilitates, for example, the identification of a large population of sequences by permitting a rational approach to splitting such populations into subsets, each of which subsets can be examined in turn.

In the light of these developments, the present invention now provides a nucleic acid fragment encoding a gene product or portion thereof and comprising any one of:-

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- (a) a sequence selected from SEQ ID Nos 1 to 1193;
- (b) an allelic variation of a sequence as defined in (a); or
- 15 (c) a sequence complementary to (a) or (b).

In another aspect, the invention provides a nucleic acid sequence as set out in any one of SEQ ID Nos 1 to 1193, or a complement or allelic variation thereof. Preferred sequences exhibit no more than 90% homology to a human sequence known per se.

In a further aspect, the invention provides a nucleic acid fragment comprising a portion of a sequence as defined above of sufficient size such that a probe of the same size and exhibiting complementarity to said portion can hybridise to said sequence. Preferably, such portions It will be appreciated that minor are at least 15 bases in length. mismatches in the aforesaid "complementarity" are not excluded provided hybridisation can still occur. In general, hybridisation conditions are within the choice of the skilled person, but reference can be made, for example, to the following: Melting temperature of hybrids -Bolton, E. T. and McCarthy, B. J. Proc. Natl. Acad. Sci, 48 p1390 (1962). Effect of formamide on lowering melting temperature - Casey, J. and Davidson, N., Nucleic Acids Res. 4, p1539 (1977). Effect of imperfect homology - Bonner, T. I. et al., J. Mol. Biol. 81, p123 (1973). General - Meinkoth, J. and Wahl, G. Anal. Biochem. 138, p267 (1984). Oligo hybridization and washing - Lathe, R. J. Mol. Biol. 183, P1 (1985).

The present invention also envisages DNA constructs comprising 40 fragments or sequences as referred to above with a control or regulatory sequence.

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The invention includes such DNA constructs using a gene system known in the art ligated to a sequence or fragment of the invention so as to enable, upon expression, the provision of a fusion polypeptide. Preferably, an endopeptidase recognition site is provided such that when the sequence or fragment is expressed it is expressed in frame with a known protein with the boundary being a cleavage site for an endopeptidase with a rare cutting site. The known protein can then be affinity purified, and the peptide corresponding to the fragment or sequence in accordance with the invention may be released by the endopeptidase. Alternatively, the whole protein can be used to raise antibodies which can then be screened for those directed at polypeptide corresponding to the fragment or sequence of the invention.

Since the present fragments and sequences can be used to produce, inter alia, corresponding genes, whether by isolating them, by synthesis or otherwise, such use and the resulting DNA fragments comprising genes are further aspects of the invention.

Yet another aspect of the invention is an expression vector comprising a fragment, sequence, gene-comprising DNA fragment, or DNA construct, as above, positioned such that that nucleic acid sequence which encodes the polypeptide corresponding to said fragment, sequence or DNA fragment is in operable reading frame with a control or regulatory sequence.

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Other aspects of the invention are host cells incorporating a sequence, or fragment, or gene-comprising DNA fragment, or DNA construct, as above, as a heterologous part of the expressible genetic information of the cell. The production of such modified host cells can be achieved using methods known in the art. Such modified host cells can be us d to express corresponding proteins, and these materials lend themselves in turn to the preparation of corresponding monoclonal or polyclonal antibodies using standard techniques.

Also included in this invention are such antibodies. Reference can be made, inter alia, to the following literature: Monoclonal antibodies, Cambell, A. M. Laboratory Techniques in Biochemistry, and Molecular Biology Ed. Burdon, R. H. and van Knippenberg, P. H. vol 13. Elsevier Amsterdam 1984. Goding, J. W., Monoclonal antibodies: Principles and Practice, 2nd Edition, academic Press, London 1986. Kipps, T. J. and Herzenberg, L. A., Handbook of Experimental Immunology: Applications of immunological methods in biomedical sciences, 4th edition Ed. Weir,

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D. M. t al., pl08 Blackwell scientific Publications, Oxford. Harlow, E and Lane, D. Antibodies, A Laboratory Manual, Cold spring harbor Laboratory, Cold Spring, New York.

Expression in an appropriate higher eucaryotic host may be important to ensure correct protein folding and also activity. Expression to avoid copurification of toxic products can sometimes be better performed in organisms approved for human consumption, eg prokaryotic Bacillus subtilis, eurkaryotic yeast, mammalian cows milk vectors, and other methods known in the art.

The invention also includes novel gene products or portions thereof encoded by a fragment, sequence or gene-comprising DNA fragment of the invention.

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It will be appreciated that the sequences of the present invention collectively have utility based, inter alia, upon their common origin, and hence they can effectively be considered together rather than as separate entities. It is convenient to represent them as separate sequences, because this is how they were produced and serves as "punctuation" between the different functional entities which each sequence represents. However, the sequences could just as easily have been presented as a continuous sequence derived by placing them end to end in the order in which they were produced, with a separate indication of where the beginnings and ends of the component sequences are.

In contrast to investigations hitherto, where gene fragments (sequence fragments) could only be identified through some known characteristic [for example: their homology to a fragment which largely encodes amino acids identified by sequencing a previously isolated peptide or is the antisense of that coding sequence; or them having at least partial homology to previously characterised nucleic acids; or them having ability to encode expressed proteins which could later be detected by functional assays of the cells expressing those proteins or by using antibodies which had been previously raised against the proteins to detect their expression, Sambrook J., et al., Molecular Cloning CSH Press 1989], the sequences and fragments described by the present invention are entirely underivable and unpredictable from the prior art, but are nonetheless clearly of great value for various purposes.

Thus, such sequences, by comparing them to sequence databases, can be

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used as a means for determining the existence of new members of existing gene fallies, new human genes when previously only non-human and new genes when previously no gen s were known genes were know (Karlin, S. and Altschul, S. F. Proc. Natl. Acad. Sci. 87 p2264-2268 (1980)). In all cases, this allows the isolation of the corresponding and hence enables the manufacture of genes and their products, molecules of potential biological interest by recombinant means. Screening libraries of known materials or hitherto unexplored source materials for biological efficacy is now an important industrial activity in the search for new therapies and therapeutics. sequences have already been found to have counterparts in gene families or in non-human genes then knowledge about biological efficacy may For example, new receptors or receptor already be apparant. agonists/antagonists may exhibit differences to known instances of these molecules, and such differences could make them more suitable as therapeutics by, for example, exhibiting binding characteristics which are more in keeping with avoidance of toxicity. Reference can be made, for example, to polymorphic dopamine receptors and the implications for mental health (Iversen, L. Nature 358, p109 (1992), and Van Tol, H. M. M. et al., Nature 358, p149-152 (1992)). Where absolutely required, realisation of full length cDNAs for expression can be achieved by using the sequences to screen (by hybridisation) suitable cDNA libraries containing full length clones (D'Alession, J. M., et al., Focus (Gibco B.R.L) 9 pl (1987)). Alternatively, the sequences can be used to design primers suitable for obtaining the missing sequences by PCR or other amplification methods (Frohman, M. A., Dush, M. K. and Martin, G. R., Proc. Natl. Acad. Sci. 85 p8998-9002 (1988)).

Appropriate use of the sequence fragments in antisense or triple helix (Griffin et al., Science 245 p967-971 (1989)) applications will be useful for identifying manipulable targets related to disease. For example, viruses have been inhibited by antisense RNA to their mRNAs (Chang, L-J., and Stoltfuz, C. M. J. Virol. p921-974 (1987)). A similar effect could be achieved by targetting the expression of cellular proteins which are essential for growth or maintenance of the virus.

Partial or full length cDNAs have great utility once expressed. The manner of expression can be selected by one skilled in the art to suit the intended application. Expression of full length cDNAs is typically required for biological activity. Procaryotic, and lower or higher eucaryotic hosts may be selected as the host for expression and higher

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eucaryotes may be preferred to ensure correct modifications, for example, glycosylation in vivo, when this proves to be important. Expression can be ensured by situating the cDNA appropriately to signals for expression (Amann, E. and Brosius, J. Gene 40 p183 1985), Shimuzu, Y et al., Gene 65, p141 (1988), Straus, D. and Gilbert, W. Proc. Natl. Acad. Sci. 82, p2014 (1985)). Such signals may include a promoter for transcription, which may itself be regulatable.

The proteins thus-expressed can be screened for activities of therapeutic or commercial value. It may be that the proteins have to be first isolated for this purpose or can be assayed in situ. It may be desirable that some means of stabilising the expressed protein is employed. This can be achieved, for example, (and as indicated earlier) by expressing in frame as part of a fusion polypeptide (Smith, D. B., et al., Proc. Natl. Acad. Sci. 83 p8073 (1986)).

Useful antibodies can be raised against the expressed proteins. It is commonly not an absolute requirement that full length proteins are produced, although this may influence the quality of the antibodies Peptides as short as 8 or 9 amino-acids in length can be used as antigens (Germain R., N. Nature 353 pp605-607 (1991), Rudensky, A., Y., et al., Nature 353 p622-627 (1991)). Immunogenic peptides could simply be synthesised using the amino-acid sequence translated from a sequence or fragment of this invention. It is desirable, although not absolutely required, that some means of producing purified When fusion polypeptides are used to raise antibodies is adopted. antibodies, an affinity matrix specific for the generic part of the protein allows the fusion polypeptide to be immobilised (Smith, D. B., et al., Proc. Natl. Acad. Sci. 83 p8073 (1986)). The immobilised polypeptide can then be used to affinity purify the antibodies. Antibodies to both the generic part of the fusion polypeptide and the part of interest are produced. When these need to be discriminated between, a different affinity column can be used to remove only those specific for the generic part of the polypeptide. Alternatively, and as mentioned earlier, it can be arranged that the boundary between the two separate protein components of the fusion polypeptide has the recognition sequence for an endopeptidase with a rare cutting site. The peptide of interest can then be released from the affinity purified polypeptide by the action of the endopeptidase (Nagai, K., and Thogersen, H., C. Methods Enzmol. 153 p461-481 (1987). Another alternative is raise monoclonal antibodies against the purified protein.

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The antibodies can be used for localising in situ, or quantifying in samples through, for example, ELISA or RIA assays, peptides against which they were raised. These uses are particularly beneficial when the results of the assays can be correlated to a disease condition, eg For example tumour markers may be found and used to target The antibodies can also be used to detect or therapeutic agents. monitor markers of undifferentiated growth, infection, cardiovascular or immune disease or a therapeutic response. When the antibodies recognise cell surface proteins they can be used in isolation or in combination to isolate particular populations of cells. These in turn can be used to isolate yet more cDNAs which will be enriched for yet more of such surface markers for the population, which, if similarly screened, will permit yet further subdivision of the population. Ultimately, panels of antibodies which can describe particular disease Such antibodies could be tailored for forensic states will accrue. applications as well as diagnostic purposes and disease monitoring.

The sequences or fragments can also be used for genetic analysis and mapping, for example, to diagnose the likelihood that a given individual is predisposed towards a given genetic disease. In the event of a sequence co-locating, genetically, with a disease gene, it can be used for the derivation of new disease therapies bases upon precise genetic knowledge. Such therapies can include, for example, the techniques of so-called "gene therapy" (Dusty Miller, A. Nature 357 p455-460 (1992)).

Antibodies can be produced against the protein of a genetic disease with sufficient discriminating power to discriminate between diseased and non-diseased states (Caskey, T. Genome Sequencing Conference, Hilton Head, S. Carolina (1991)). This would be useful for reducing the dependence of such tests on nucleic acid-based screens. Such antibodies also have the advantage of allowing detection of faulty expression of the protein, for example levels of expression which may be important for development of the disease in slow onset conditions.

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Also very important is that not all cDNAs are likely to be found by conventional means, whereas the present sequences are, in one sense, "comprehensive". The use of the class of cDNAs which corresponds of necessity to truncated clones increases the chances that part of a cDNA will be cloned free of any sequences that could otherwise compromise it from being cloned. Sequence obtained can then be used to generate PCR primers from which the remainder can be obtained without having to

clone.

This invention will now be further described and illustrated by means of the following Examples.

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All oligonucleotides used in these Examples were synthesised Trityl on using an ABI 380B DNA Synthesizer according to the manufacturers instructions. Purification was by reverse phase HPLC (see, for example, Becker, C., R., et al., J. Chromatography 326, p293-299 (1985)).

Example 1

Human brain and adrenal tissues were obtained from a mixture of 12 to 15 week menstrual age foetuses and then snap frozen in liquid nitrogen before storing in bijou bottles in a -80°C freezer. The two types of tissue were used separately, directly from the freezer, to prepare cDNA from which restriction fragments were generated for sorting into subsets. 1g portions of each of the separate tissues were homogenised, using an Ultra-Turrax T25 Disperser (Janke and Kunkel, Labortechnik), on ice in the presence of 4M guanidinium isothiocyanate to solubilise macromolecules. RNA was isolated from each homogenate by using centrifugation to sediment it through caesium trifluoroacetate. This was performed using the Pharmacia kit according to the manufacturer's instructions, except that centrifugation was performed for 36 hours and the RNA obtained was finally desalted and concentrated by performing two ethanol precipitations in succession with two 70% ethanol washes after each precipitation. In each case, polyA (mRNA) was isolated from 200 to 400 $\mu \mathrm{g}$ of the total RNA by binding it to magnetic oligo-dT coated beads (Dynal). Solution containing unbound material was removed from the beads, which were washed, and then mRNA eluted directly for use. mRNA isolation was performed in accordance with the manufacturer's instructions. Yields of RNA from the beads were between 1 and 3% of the total RNA. 2 to 4 μ g of the eluted RNA were used for cDNA synthesis. cDNA synthesis was performed according to the method of Gubler, U and Hoffman, (B. J. Gene 25 p263 (1983) using a Pharmacia kit according to the manufacturer's instructions. OligodT was used to prime the first strand cDNA synthesis reaction. The cDNA was purified by extracting twice with phenol/chloroform and then low molecular weight solutes including nucleic acids below ca. 300 bases were removed by passing the cDNA reaction mixture through a Pharmacia S400 spun column used according to the manufacturer's

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instructions. Running buffer for the column comprised 10 mM TrisHCl, 1 mM EDTA, 50 mM NaCl @ pH 7.5.

The column eluate was adjusted to 10 mM $\rm Mg^{2+}$ and then the purified cDNA was restricted by the action of 1 unit per 10 μl of the endonuclease Fok I at 37°C for 1 hour, so that it would be able to accept adaptors to enable fragment sorting.

The cDNA fragments were purified by two successive phenol/chloroform extractions followed by passing them through S400 spun columns as described above.

The adaptors used were oligonucleotides 5' N4N4N4N4TCCTTCTCCTGCGACAGACA (SEQ ID: 1194) with the complementary strand 5' TGTCTGTCGCAGGAGAAGGA 15 (SEQ ID: 1195) and 5' AAN,NATCTCGGACAGTGCTCCGAGAAC (SEQ ID: 1196) or 5' TTN,N,TCTCGGACAGTGCTCCGAGAAC (SEQ ID: 1197) each with the complementary 5' biotinylated strand GTTCTCGGAGCACTGTCCGAGA (SEQ ID: 1198). were added to 25% of the eluted material by incubating together 200 pmoles of the mixture of double-stranded adaptors in the elution buffer 20 to which had been added $MgCl_2$ to 10mM, ATP to 10mM and 0.025 units/ μl DNA ligase. The oligonucleotide 5' biotinylated GTTCTCGGAGCACTGTCCGAGA, whichever (SEQ ID: 1198) and complementary oligonucleotides with which it was used, each comprised 1/32 of the molar proportion total adaptors. The final reaction volume 25 was 90 μ l which was heated to 65°C for 3 minutes and then cooled to room temperature before the ligase was added. Ligation was performed for 16 hours at 12°C.

Two successive phenol/chloroform extractions were performed to remove the ligase. The final aqueous phase was passed through an S400 spun column (Pharmacia) as described above except that the column was used with 10 mM Tris pH 8.3/50 mM NaCl.

The column eluate was adjusted to 25mM Mg2+, 0.5mM dNTPs in a final volume of 200 μ l. The mixture was placed in a thermocycler (Techne MW2) and heated to 78°C for 5 minutes. At this point 10 units of cloned Taq DNA polymerase (AmpliTaq, Perkin Elmer) were added. was followed by an incubation at 72°C for 10 minutes to fill in the unligated strand of the adaptor. After the second incubation 200 μl of streptavidin coated magnetic beads (Dynal) prepared according to the manufacturers instructions were added to bind cDNA ligated to that of oligonucleotides the which was complementary to the 5'

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GTTCTCGGAGCACTGTCCGAGA (SEQ ID: 1198) biotinylated adaptor. Bead binding was allowed to proceed at 28°C for 30 minutes with mixing every 10 minutes.

5 Un-biotinylated cDNAs were washed from the beads with $400\mu l$ each of 2M NaCl twice, fresh 0.15 mM NaOH four times at 28°C for 5 minutes each, water twice and finally a buffer comprising 20 mM Tris pH 8.3, 50 mM NaCl, and 25mM Mg²⁺. The beads were then resuspended in 240 μl of the final buffer including additionally 0.5 mM dNTPs and divided into 4x60 μl .

Four of the 60 μ l aliquots, two from each tissue, were processed further specifically to prime and copy a subset of the immobilised, adaptored fragments. 2 pmoles of the primer 5' CTGTCTGTCGCAGGAGAAGGAA (SEQ ID: 1201) were added to each of two aliquots, one from each tissue. 2 pmoles of the primer 5' CTGTCTGTCGCAGGAGAAGGAG (SEQ ID: 1202) were added to each of the other two aliquots. 2.5 units of Taq DNA polymerase were added to each reaction and 16 cycles of alternate denaturation at 95°C for 30 seconds, annealing at 63°C for 2 minutes and polymerisation at 72°C for 3 minutes was performed to accumulate the selected single-strands in solution.

On completion of the DNA synthesis reactions a further 30 μ l of resuspended beads were added to each reaction to remove the biotinylated fragments. The reaction was incubated at 28°C for 30 minutes mixing every 10 minutes to ensure that the biotinylated strands were bead bound. Each aqueous phase containing the newly synthesised strands was then removed and extracted with phenol/chloroform twice to remove the enzyme before being further purified by passing through an S400 spun column equilibrated with 10 mM Tris pH 8.3/50 mM NaCl as described above.

Rounds of PCR amplification of subsets of the selected fragments were performed by using the original primer in each case, together with one of the primers 5' GTTCTCGGAGCACTGTCCGAGAG (SEQ ID: 1199) or 5' GTTCTCGGAGCACTGTCCGAGAC SEQ ID: 1200). This simultaneously rendered the fragments double-stranded and increased the amounts of available material. It was not known how many cycles of amplification would be required at this stage, since each primer pair would be expected to behave differently. It was therefore necessary directly to determine a suitable number empirically by using standard agarose gel el ctrophoresis to examine the reaction products after a given number

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of cycles. In some cases, to avoid the accumulation of non-specific products, it was necessary to perform an initial 5 cycles of amplification with both of the primers present at 2 pmoles each. All reactions were performed using 8 μ l or 12.5 % whichever was the larger but not exceeding 12 μ l of the column effluent above. Reaction conditions were adjusted to 20 mM Tris pH 8.3, 50 mM NaCl, 25mM Mg²⁺, 0.5mM dNTPs and 2.5 units of Taq DNA polymerase in a final volume of 40 μ l. Apart from when an initial amplification with 2 pmoles of each primer was performed, 20 pmoles of each primer were used. Cycles of amplification were performed at 95°C for 30 seconds, 65°C for 1 minute and 72°C for 3 minutes.

For the purposes of cloning, selected cDNA was amplified as described immediately above, except that the reaction was not monitored. Instead, the number of cycles which had previously been shown to just give rise to all observable products plus another 4 cycles were performed. In addition, an extra 72°C for 10 minutes incubation was performed after the last cycle.

The products of the reaction were then prepared for directional cloning. Water was added to adjust the final reaction volume to $60~\mu l$. Enzyme was removed by two successive phenol/chloroform extractions. The final aqueous mixture was passed through an S400 column as described above, except that it had been equilibrated with 10 mM Tris HCl pH 7.5, 50mM NaCl.

For directional cloning, advantage was taken of the different known sequences introduced at each end of the selected cDNAs by the adaptors in a modification of the method of Aslandis, C. and de Jong, P. J. (Nucl. Acids Res. 18, p6156 (1990)). Different cohesive ends wer produced on each end by using the exonuclease activity of T4 DNA polymerase to resect from the 3' end, to the first T in each case. 75 μ l or 75 % of the column eluate, whichever was least, were added 9.5 μ l of 100mM TrisHCl pH7.4, 100 mM MgCl2, and 9.5 μ l of 0.5 mM dTTP. 16 units of T4 DNA polymerase were added and the reaction incubated in a water bath at 37°C for 30 minutes. The enzyme was removed by extracting with phenol/chloroform, twice successively. The salt of the final aqueous phase was adjusted by passing it through an S300 column (Pharmacia) equilibrated with 10 mM TrisHCl pH 7.4, 1 mM EDTA as described above.

The E.coli plasmid cloning vector pBluescript KS+ (Alting-Meese, M. A.

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and Short J. M., Nucl. Acids Res. 17 p9494) was prepared for accepting the resected cDNA by restriction cleavage at the BamHI and HindIII sit s and then adaptoring the resultant cohesive ends using the specific adaptors produced by the oligonucleotide 5' AGCTCGGCTCGAGTCTG (SEQ ID: 1203) with its partially complementary oligonucleotide 5' GCGACAGACAGCAGACTCGAGCCG (SEQ ID: 1204) and the oligonucleotide 5' GATCCGGCTCGAGT (SEQ ID: 1205) with its partially complementary oligonucleotide 5' CCGAGAACACTCGAGCCG (SEQ ID: 1206). Preparation of the vector and adaptoring were performed according to standard procedures. Insertion of the cDNA was performed between the BamHI and HindIII restriction sites. Recombinant vectors were transformed into the host XL1-Blue (Bullock, W. O. et al Biotechniques 5 p376-378 (1987)) by the method of Hannahan, D. J. (Mol. Biol. 166 p577-580 Suitable standard controls for the ligations (1983)). transformations were also included.

Post transformation procedures were as described in "Molecular Cloning", 2nd Edition (Sambrook J., Fritsch, E. F., and Maniatis, T. CSH Press (1989)). Colonies were produced by plating onto X-gal/IPTG L-agar plates containing $50\mu g/ml$ ampicillin and $10\mu g/ml$ tetracyclin. Clear colonies were picked, each into a separate well of a microtitre plate, containing $100\mu l$ of L-broth and $50\mu g/ml$ ampicillin. Growth was allowed to occur for 16 hours at 37° C. $100\mu l$ of 50% or 30% glycerol was added to plates which were archived at -20° C or -80° C, respectively.

Bacteria corresponding to those archived were used for preparing templates for sequencing by the dideoxy method (Sanger, F. Milklen, S. and Coulson, A. R. Proc. Natl. Acad. Sci. 74 p5463-5467 (1977)). Bacteria for this purpose were either grown on L-agar plates containing 50µg/ml of ampicillin, prepared at the same time as they had been grown in liquid culture, or after plating out from the archive. Alternatively, fresh liquid cultures were inoculated from the archive. In all cases, cDNA inserts were amplified for sequencing by PCR (Saiki, R. K. et al Science 239 p487-491 (1988)). PCR was either performed using bacteria directly added to the reaction, by a toothpick, or PCR was performed using 1/50th of the plasmid isolated by preparative methods (Holmes, D. S. and Quigley, M. Anal. Biochem. 114 p193 (1981)) from the bacteria in the liquid cultures or from the plates.

20 pmoles of each of the PCR primers 5' biotinylated GTAAAACGACGGCCAGT

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(SEQ ID: 1207) and 5' CGAGGTCGACGGTATCG (SEQ ID: 1208) were used in $40\mu l$ reactions containing 2.5mM Mg²⁺, 50 mM KCl, Tris-HCl pH 8.3 and 0.25 units of Amplitaq (Cetus). Reactions were performed at 95°C, for 1 minute, followed by 35 cycles at 95°C for 30 seconds, 60°C for 30 seconds and 72°C for 40 seconds. After the cycles, a final incubation at 72°C for 5 minutes was performed.

After PCR, standard agarose gel electrophoresis was used to determine which reactions had been successful. The biotinylated strands of successful reactions were then recovered for single-stranded sequencing by binding them to steptravidin coated beads (Dynal) and then washing, all according to the manufacturers instructions, except that the washing steps were either performed manually or performed automatically in the 96 well microtitre plate format using a Biomek robotic workstation attached to a side-arm loader (Beckman).

Dideoxy chain termination sequencing reactions were performed using the immobilised, biotinylated strands as templates and 2 pmoles of the oligonucleotide 5' CGAGGTCGACGGTATCG (SEQ ID: 1209) Reactions were performed using fluorescently-labelled terminators (Du Pont) or a fluoroscein-labelled primer (Pharmacia) according to the manufacturers instructions. Reactions were analysed using automated DNA sequencers. A Genesis 2000 was used for the "Du Pont" reactions and an A.L.F. for the "Pharmacia" reactions. Bases were assigned for the Genesis 2000 reads using the manufacturers Base Caller software. Files of called bases were then transferred to a SUN Network from an Apple Macintosh computer which had been used for base calling. data from the A.L.F. reads was directly transferred to a SUN network where bases were called using the public domain "trace editor software" In both cases, files of called bases were entered into a SybaseTM database. Entering data entailed automatically removing vector and adaptor or linker sequences, but not editing ambiguous bases. After removal of the unwanted bases, files were automatically compared to other sequences in the cDNA database and the latest versions of the publically available databases, GENBANK and SWISSPROT. Searches wer performed with the "basic local alignment search tool" (BLAST) (Karlin, S. and Altschul, S. F. Proc. Natl. Acad. Sci. 87 p2264-2268 (1990)).

Sequences SEQ ID Nos 1 to 610, given hereinafter, were obtained by the above procedure.

Example 2

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to 100 μ l with water.



A second method of preparing cDNA libraries for obtaining gene fragments of the invention took advantage of the PCR normalisation process described above. Standard procedures were used to prepare mRNA from RNA that had been isolated by standard caesium chloride bouyant density gradient methods from a full term human placenta. The oligonucleotide LNotdt, sequence 5' TACGTTCGACAAGCTTGAATTCGCGGCCGC(T) $_{26}$, (SEQ ID: 1210) was used at 1 μ M with AMV reverse transcriptase, to prime first strand cDNA synthesis under standard conditions from 0.5 μ g of the placental mRNA. Temperatures above 65°C were used to inactivate the reverse transcriptase and then the volume of the reaction made up

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PCRs were then performed in reactions containing 1 μ l of the diluted cDNA, 10 mM Tris-HCl pH 8.3, 40 mM KCl, 1.5 mM MgCl₂, 0.01% gelatin, 200 μ M dNTPs, 10 uCi a³²P dCTP, 1 μ M each of the primers 11AD1, sequence 5' GCC(TA)(GC)CGCCGA (SEQ ID: 1211), and LNotdT and Taq DNA polymerase. An initial denaturation period of 95 c for 90 seconds was followed either by 35 cycles of standard PCR, comprising 95 C for 30 seconds, 45 C for 30 seconds and 72 C for 30 seconds or alternatively 3 cycles of the standard PCR already described followed by 27 cycles of Cot PCR during which an additional step of 72 C for 16 minutes was placed between all of the 95 C and 45 C steps of the standard PCR. The standard PCR was followed by a single 72 C for 3 minutes step while the Cot PCR was followed by one standard PCR cycle except that the 72 C incubation was performed for 3 minutes.

Products of the PCR reaction were end repaired by adding 5 units of T4 DNA polymerase to the reaction and then incubating at 37°C for 10 minutes. Enzymes were removed by phenol extraction. The cDNA was precipitated by 70% ethanol, dried and then resuspended in NotI buff r. 20 units of NotI were used to digest the cDNA under standard conditions. cDNA was again phenol extracted and ethanol precipitated. 10% of the purified NotI cut DNA were ligated to the vector pBluescript lting-Meese, M. A. and Short J. M. Nucl. Acid Res. 17 p9494 which had been prepared as standard to receive this DNA by restricting with the enzymes NotI and EcoRV. Transformation and processing of clear colonies was performed as described above except that the host E.coli strain DH5a was used in place of XL-1 Blue.

40 Preparation of clones for sequencing, sequencing and sequence analysis of cDNAs in clones thus-produced were performed as described in Example 1.

Sequences SEQ ID Nos 611 to 772, given hereinafter, were obtained by the above procedure.

Example 3

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cDNA libraries corresponding to adult brain cortex (Clontech Laboratories, Inc., Cat No. HL10036) and adult bone marrow (Clontech Laboratories, Inc., Cat No. HL10586) prepared in lambda gtl1 phage were transfected into E.coli Y1090 and plated out for colour selection of recombinant plaques ("Molecular Cloning", 2nd Edition Sambrook J., Fritsch, E. F., and Maniatis, T. CSH Press (1989)). 192 lambda Zap clones, corresponding to rhabdomyocarcoma cDNAs and a gift from C. Cooper, ICR, Sutton, were similarly plated except that the host XL-1 Blue was used.

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Clear plaques from each library were resuspended in 5 μ l of Tris-HCl pH 8, 1 mM EDTA. 2 μ l of the resultant phage suspensions were added directly to PCRs for the purpose of amplifying the cDNA inserts for sequencing. PCR was performed as described in Example 1, except that the oligonucleotides used as primers for the lambda gt11 clones were 5' GGTGGCGACGACTCCTGGAGCCCG (SEQ ID: 1212) and 5' TTGACACCAGACCAACTGGTAATG (SEQ ID: 1213). Whichever of the oligonucleotides was to be used to prime the strand which would serve as the sequencing template was used in biotinylated form.

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Preparation of clones for sequencing, sequencing and sequence analysis of cDNAs in clones thus-produced was performed as described in Example 1, except that 2 pmoles of the primers that were unbiotinylated in the PCR were used as sequencing primers.

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Sequences SEQ ID Nos 773 to 1193, given hereinafter, were obtained by the above procedure.

The following are the SEQUENCE LISTINGS which comprise sequences SEQ ID

Nos 1 to 1213 referred to hereinbefore. Certain of these sequences are preferred, and are listed as such after the main SEQUENCE LISTINGS.

	(1) GENERAL INFORMATION	
	(i) APPLICANT	
	(A) NAME: MEDICAL RESEARCH COUNCIL	
5	(B) STREET: 20 PARK CRESCENT	
	(C) CITY: LONDON	
	(E) COUNTRY: ENGLAND	
	(F) POSTAL CODE: WIN 4AL	
10	(ii) TITLE OF INVENTION: HUMAN GENOME SEQUENCES	
	(iii) NUMBER OF SEQUENCES: 1213	
	(iv) COMPUTER READABLE FORM:	
15	•	
	(A) MEDIUM TYPE: DISKETTE	
	(B) COMPUTER: IBM PC COMPATIBLE	
	(C) OPERATING SYSTEM: MS-DOS	
	(D) SOFTWARE: EXTRACT	
20	(2) INFORMATION FOR SEQ ID :1:	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 264 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1:	
	GCCGATTCGT GACCAAGAAG GCTCTGTGCA TTCGGGTTTT CCAGGAGACT	50
35	CAAAAGCTGA AGAAGCGAAG AAGAGCCTTA AAGGCTGCAG CAGCAGCTCA	100
	ATAAACAAGC AAAGCGGAGG AACCCAGACA GCCCTTGTCC AAAGCCATAC	150
	CAATATGATC TATCTTCTAA TGTATCCATG TTGTAATTAT ATATGTGTCT	200
40		
	GTGTGTGTCG AAATCTCTAG ACATACAGAT ATATATTCAT ATATCATATA	250

	TATATATA CACA	264	
	(2) INFORMATION FOR SEQ ID :2:		
5	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 124 base pairs		
	(B) TYPE: nucleic acid	,	
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
10			
	(xi) SEQUENCE DESCRIPTION: SEQ ID :2:		
15	AGGAACATGT GTTTATTCAT CCAGCAGTGT TGCTCAGCTC CTAG	CCTCTGT 50	
	GCCAGGGCAG CATTTTCATA TCCAAGATCA ATTCCCTCTC TCAG	GCACAGC 100	
20	CTGGGGAGGG GGTCATTGTT CTCT	124	
	(2) INFORMATION FOR SEQ ID :3:		
	(i) SEQUENCE CHARACTERISTICS:		
	(A) LENGTH: 333 base pairs		
25	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear		
30			
	(xi) SEQUENCE DESCRIPTION: SEQ ID :3:		
	ACAGAGCCGA TTCTGCATCC ACTGTGGTCA ACATTTAGGA AGT	TTTAAGC 50	
35	TAAGATTTGC CAAATTGTAG CCTACTGGAT TCCGGTTCTC TTG	ACATCTC 100	
	TTTCTAGTAG CCATGTCTTG CACTTCCCGA GTATAAACGA ACT	GAGATGC 150	
40	AAATTAAAAA AGGGAGGATT TAGAATAATG AAAAGAGAAA AGT	CAAGAAA 200	
5	GCACAATCAC TAGTGTAGAG ATAACAGAAT TTCTGAATTC CCT	GAAAGCA 250	

	ATCTATATAA ATGCATGTGA AATAATACAC CAGCATCTGT GGCCCATACG	300
	TCACATATTA GGAACTGATA ACATAAGGTA AAC	333
5	(2) INFORMATION FOR SEQ ID :4:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 200 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :4:	
	AGGGAGAAAG GAACATCCGC GAACAGCCAA AGAAATCTCA GAAGAGTCCC	50
	GGAGCTCAAG GATCAGAGTA ACACAATTTT CACTTTTTCT GTCTTTATGT	100
20	AAGAAGAAAC TGCCTAGATG ACGGGGCCTC CTTCTTCAAA CAGGAATTTC	150
	TGTTAGCAAT ATGTTAGCAA GAGAGGGCAC TCCCAGGCCC CTGCCCCCAT	200
25	(2) INFORMATION FOR SEQ ID :5:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 213 base pairs	
30	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :5:	
	ACAGAGCCAT TTGCATCCAC TGTGGTCAAC ATTTAGGAAG TTTTAAGCTA	50
40	AGATTTGCCA AATTGTAGCC TACTGGATTC CGGTTCTCTT GACATCTCTT	100
40	TOTAGETAGES ATGTETTES STORES ATTANCED TO TORGATOS	150

	ATTAAAAAA GGGAGGATTT AAGAATAATG AAAAGAGAAA AATCAAGAAA	200
	GCACAATCAC TAG	213
5	(2) INFORMATION FOR SEQ ID :6:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 345 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :6:	
	CGCAGGAGAA GGAACAGAGC CATTGTGCAT CCACTGTGGT CAACATTTAG	50
20	GAAGTTTTAA GCTAAGATTT GCCAAATTGT AGCCTACTGG ATTCCGGTTC	100
20	TCTTGACATC TCTTTCTAGT AGCCATGTCT TGCACTTCCC GAGTATAAAC	150
	GAACTGAGAT GCAAATTAAA AAAAGGGAGG ATTTAGAATA ATGAAAAGAG'	200
25	AAAAATCAAG AAAGCACAAT CACTAGTGTA GAGATAACAG AATTTCTGAA	250
	TTCCCTGAAA CAATCTATAT AAATGCATGT GAAATAATAC ACCAGCATCT	300
30	GTGGCCCATA CGTCACATAT TAGGAACTGA TAACATAAGG TAAAC	345
	(2) INFORMATION FOR SEQ ID :7:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 159 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

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(xi) SEQUENCE DESCRIPTION: SEQ ID :7:

	TCCATTTGAC ATCGCATTTC CATAGAAATG GCCAAAGAAA GAAGGTCCTG	50
	GGGTTTTTTA TAGAAAGCTC AAAAAGTTCA ACCTTTGATG CTATCCCCCA	100
5	GCCCAATACA AAATATATAG AAAAAGCGAT TATTACAATA ACGCTTCAAT	150
	TTCTTTCC	159
	(2) INFORMATION FOR SEQ ID :8:	
10	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 124 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	_
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :8:	
20	ATATTTCAAT CGAACAAAA GGAAACTTTT TTTGAACTTA TTGAGGCTCT	50
	ACTTAAGTAC ATCGAAACCC TTAATGCTTC TGGGGCTGTG TTGATTTCCT	100
25	TGCCTGGCTG GGGGTTTGAT TCGC	.124
	(2) INFORMATION FOR SEQ ID :9:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 259 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :9:	
	CCGATACAAA TGTACGGAAT GTGTGAGTCC CTCTGGGAGC CCAACATGGA	50
40	TOOGGATOAC CTGTTTGAAA CCATCTCCCA AGCCATGCTG AATGCTGTGG	100

	ACCGGGATGC AGTGTCAGGC ATGGGAGTCA TTGTCCACAT CATCGAGAAG	150
	GACAAAATCA CCACCAGGAC ACTGAAGGCC CGAATGGACT AACCCTGTTC	200
5	CCAGAGCCCA CTATATATTA TTTCTACTTC ATCTATATAT TGCAAAAATA	250
	GAAAATAGA	259
	(2) INFORMATION FOR SEQ ID :10:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 216 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :10:	
	GTCACCAAGA CCGAGGCCAA ACTGGGCACC TTCCCCAGGG CCCTCAAGAA	50
	GCTCCTGCAC ACAATAAACG CGCCCTCGTT CTTTAGCAAG TCTGCTCCCT	100
25	CGAGGCCACA GCAAGCCGGC TACGGAGCCC CCGTTCTGTT TTGAGCCGAA	150
	GACTACTTTA TTGGATGCGG TGAAAGGCCT CAGCTCTGAC ACTCTGATCA	200
30	CTGTGACAAG GGGCCC	216
	(2) INFORMATION FOR SEQ ID :11:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 205 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

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(xi) SEQUENCE DESCRIPTION: SEQ ID :11:



	 CACACTTCTT AAGATACATC AAGTACTAGT GATCTTTGCT AGCAGTTATG	50
	CCTGTTTCGT GTTACAGATT TGGCCATATA TTGACTAAAC AGCCCCTGTA	100
5	AAGTTGAAAG AAAAAGTTTA TAACAGTGAA CTTCTGAGGT TTACGTTACT	150
	GCAGGCTTTG TTGAGAAGAG ATTGTTACAG TGTGATTTAT GGATGATCAG	200
	GGATG	205
10	(2) INFORMATION FOR SEQ ID :12:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 267 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :12:	
	TGCATCTGAA GAGTTGATGA TCGAGACTAC AGCTGCACTA TCAGACTGTC	50
25	AGGCAGCTCC CTCAGAAACA GCTTCAACAG ACTGGCTGCT GAGCAGACAT	- 100
	CACCGTCCTT CCGAGCTCCA CGGCGACTCC ACTCTCGAAC TTCAGTCGAA	150
20	GTTGTTCCAC CACCTTCACG TTACCATTCA CCCTAAAAGA CCTTCTTGGG	200
30	TAAGTCCATG CTGCGTCAAA TATTCCACTA TATTCCACAC TACTGCTGGA	250
	TATGCCATTC TCGGTGA	267
35	(2) INFORMATION FOR SEQ ID :13:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 116 base pairs(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	



	(xi) SEQUENCE DESCRIPTION: SEQ ID :13:	
· 5	GCCTCATCAG GTTTGCCCAG ATGCTGGAGA AGGTGTGCGT GGAGACGGTG	50
5	GAGAGTGGAG CCATGACCAA GGACCTGGCG GGCTGCATTC ACGGCCTCAG	100
	CAATGTGAAG CTGAAC	116
10	(2) INFORMATION FOR SEQ ID :14:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 296 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :14:	
	TTCGAACTTA CCAGCATCAT GTTTGGTCTC TTCGTATGGT CAAACTTCAA	50
25	CTTTATAAAA ATAGTGAATA CCACTTATTG AGTGCTTAGA GTGTACCAGG	100
	CATGGTGCTA AATACTCTCT ATCCATTATC TCATTAAATC ACATGACACT	150
	ATGAGAAATG TACTATTCTT ATACCCACGT TGCCCAGGGT CATACATCTA	200
30	AGGGGTGCAA GGACCAGGCT TTGATTTCAA ATTATAATCT AATGCTCACT	250
	CTCCAGGCCT GATGTCACGC AGCTCCTCAT TCTTATACTT AACATA	296
35	(2) INFORMATION FOR SEQ ID :15:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 123 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

29

(xi) SEQUENCE DESCRIPTION: SEQ ID :15: CGTCAGTGTG CTACTTCACA TCATTAGCGA GGCCCAGAAA CTTGAACAGG 50 AAGTCCGGCA CTACCAACAT GCCGCCACTC ATACAACTCA ACTCTTCCTC 100 5 123 CAAACTCGAT TCAAAGAGCA ATA (2) INFORMATION FOR SEQ ID :16: 10 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 262 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 15 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :16: 20 CAACACATTA GTGCATCAAT ATGAATTACT TGTTTAAAAA ATCAAATGCT 50 GGCATTGTCA GAAAAATTTA ACAGGTTTAT TTATAATTAT CATAAAGTTG 100 150 ACGCTGAAAC TTGTTCACTG AAACATTTTA ACTTGCATTA ATGCTTTACG 25 200 CAATACCTGA TTTCTGTCCC TATTTTTCAC TCGCAATCAT ATACTTAGTA 250 30 CTTTTGACTC TA 262 (2) INFORMATION FOR SEQ ID :17: 35 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 169 base pairs (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

30

. •	(xi) SEQUENCE DESCRIPTION: SEQ ID :17:	
	TAGCCAAATT CTAGGGCATC CAGATGCATT TGAGCCAGTC GTAATCCAGG	50
5	AAATGTCAAA AAAGCCCCAA TGAATGAACA GAAAATAGCC AGGAAAAATT	100
	TGAAAGTAAG TTTTGAAACA GGACTCGTGG AGATTCTAAA CCTTGCATTT	150
	TCAAGAAACG TGCATCAGC	169
10	(2) INFORMATION FOR SEQ ID :18:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 221 base pairs	
15	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :18:	
	AGGGGCACCA TTACCATCCA TCTGACATCG CATTTCCATA GAAATGGCCA	50
25	AAGAAAGAAG GTCCTGGTAG GTTTTTCATA GAAAGACTCA AAAAGTTCAA	100
	CCTTTGATGC TATGCCCCAG CCCAATACAA AACTACACAG AACAAAGCAA	150
30	TTATTAAAAT ACTGGCTTCG GTTTCTTTTT TTCCTTTGCA AAGTTTCCTA	200
30	CATATATGTC TTTTACAGTA T	221
	(2) INFORMATION FOR SEQ ID :19:	
35	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 135 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	



(xi) SEQUENCE DESCRIPTION: SEQ ID :19: TAGGCTCTGT GACGGCATAG TTTTCAGTAG CTTTATCACA ATATTCACAA 50 100 TGGAGAATTA TATGACATGG TAGCAGAAAT AGGCCCTTTT ATGTGTTGCT 5 TCTATTTTAC CTGAAATTGT AGATATAGGG TAATC 135 (2) INFORMATION FOR SEQ ID :20: 10 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 314 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 15 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :20: 20 50 TAGTTCTGTC ATTTAAAATA TACTATTTAA ATCTAATTTT TACATTTCAA . 100 25 AAATTATCTT CAGTAGTAAC TAAGTATATT TTCTGTGGAT TCTGAGAATG · 150 TTATTTTCA GAATGTGAGA GTACATATGT ACATTTATAA TCTTGTGACT ... 200 TTAAAGTCTG TTTTCAGATA CAGTATGTAA ATACTTGTAA AAAAAATTGT 250 30 300 ATAATTTTGT GATAATGTAG TTTCCCAAAA CACATTTAGA AAGCATTATG TTATTAGTAA ATGA 314 (2) INFORMATION FOR SEQ ID :21: 35 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 178 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 40

(D) TOPOLOGY: linear



	(xi) SEQUENCE DESCRIPTION: SEQ ID :21:	
_	TCTTCGCATC ACGCAGTACA GATACTCTTT CTGTACTTGC TTAATCTGCT	50
5	TTTTGGCATC AGTCAGTTCT CTTTCAGGTC AGCATAATCT TCTTCCTTCC	100
	TCTGAAGATC TGCTTTCAGA TTCTGGGTAC GAGCAGAGCT TACAGAGAGT	150
10	TCCTCTTCA ATATTCTGT TTCTTGCC	178
	(2) INFORMATION FOR SEQ ID :22:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 188 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :22:	
	ACATCTGATA TCCACCTCCA TGACAGACTG ATCACACCTC CTTCTATACT	50
25	ACTTCTGTTC TTTGTAAATA CTTAGTATTT TCCAAGGGAG TGTGAGAGAA	100
	GAAATGCTAG GTTCATGAAG GGTCTCTAGG TTAAACTTTC TTTCTTTTTT	150
30	TTTCTTAAAA CAACACATT ATTATCTTAC AAATCTGT	188
	(2) INFORMATION FOR SEQ ID :23:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 152 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	



	(xi) SEQUENCE DESCRIPTION: SEQ ID :23:	
	TTCCANCTAA ACATCCAATA TNTCNTTTAN TGCTTTTATA TTTTTNAAAT	50
5	GTTARARCCC CTATACCACC TTTTGGGART GTTTTARATT CTCCARTTT	100
	TCGTTATATA GGATCAACCA ACTAAGAAAA GATTTTATCA ATTGAATTGA	150
	GG	152
10	(2) INFORMATION FOR SEQ ID :24:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :24:	
	ACAATACAGA GGACAAAGAC CCCTCACAGA ATGCTTTTCA ACCAACTTCA	A . 50
25	ACTITIGCAC ACTITITCAA CGGTCCCACC ACA	83
	(2) INFORMATION FOR SEQ ID :25:	
· 30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 176 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :25:	
40	AAATGTCCAT TGCTGTATTG CGTGACCGTG GTCCTTGCCT GTCAAATNCA	A 50
	ACANTGACCA ANTGATGATG CGCCCTTANT ACCAGGATGA GACCANACCT	r 100



	ACACATCTCC CAAGTGCCGA ACAAAAACCT GAACAAAAAC CATNTGCACC	150
	CTACATCTGG CTGACATTTA CATTTT	176
5	(2) INFORMATION FOR SEQ ID :26:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 232 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :26:	
	AAATGTATGA TCAGAAAATA GGTACGCTTT TAAAATATTT GAACAGAAAA	50
20	GCTACAAATA AATNGAGCAA TGCTTTTAAA ATCATCTTTG TTTTATAGAC	100
20	TTTTTCTCGC ATGAATTACA TTTTACAATT TCATNNGGCA TATTCGCACT	150
	TTAAGTACTG ACGAAGAAGA CTAAAACAAT CATTTTTAA CAATATTTAA	200
25	AAGGATCATA TAGTCGACTT TTAAAACANC CC	232
	(2) INFORMATION FOR SEQ ID :27:	
30	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 192 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :27:	
40	GAGAAAGTCC TTGCCATTCT AAAAGCCACC CCACTTCTCT AAGGAGAATG	50
40	CCCCABTCTT CCCABGTCCA CACAGGAGGG AAACATTGTT TGCGTAAATA	100





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.•	CGCAATGCAA AATTTNNTAT CTTGGCTTAA TACNNCGACG	TTTTATTTCG 15	50
	AATGATGAGC CTTCTGCCCC CCCTTCCCCT TTNNNCTCCC	cc 19	92
5	(2) INFORMATION FOR SEQ ID :28:		
10	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 201 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :28:		
	TAACACTTTA ANCATCTCTC CAAGCCAAGG AGGCTATGAC	ANTGTAGCTT 5	0
	TTATACTGTC CCCATCGGCC ACAATAACAA ACTTTTAACC	CTCATAAAAT 10	00
20	GAATGAAATC ATCTTTCTAA GAATCTATAC CTACAATTCT	CTGAACTAAT 15	0
	CAATGAAAAA GATGATCAAT TCTGACTAAC AAAGATATAT	CGATTCCATT · 20	00
25	· τ	20)1
	(2) INFORMATION FOR SEQ ID :29:		
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 275 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		
35			
	(xi) SEQUENCE DESCRIPTION: SEQ ID :29:		
40	AACCTAAGGC AGTTGACCCC ACCTTCCAAC ATGTTTTCAC	TTTATTGGCC 5	50

CCTCCCTACA TTCGGGTTAG GTTCCATTTG ATTTGCACAA TAATGACTTT



	•	
	ATTTCTCTTT GATCAGGATT TGGCACATAA AATCCTTTTA TCATAGAACT	150
	AACTATTTTA ATTACATATA ATGTAACTAA TGGAGAGATT TATAGAGAAT	200
5	TTTGTTTTTT TGTCATATAC TCCATTTCGA AGACAGATAT GATAGAACTA	250
	GAAATTAAGT TGCATTTCTG CAAGT	275
	(2) INFORMATION FOR SEQ ID :30:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 122 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
13	(b) 1010b001. 11car	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :30:	
20		
	GTAAATNTAC AAAGATAACG TCGCAATTTT CTTAGATTTA AATCAAAGAC	-50
	ATTCATCAAC AAGATTTCGA ATGGAATATT CCAGAAATTT CTGAGCCATC	100
25	TGATCACAAC AACCGTCTTT GA	122
	(2) INFORMATION FOR SEQ ID :31:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 197 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
. –		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :31:	
	GGATTTGNAG CTTGAAGTTC AGAGCTGGTT TACCCAAAAA GGGAGCCAAT	50
40		

AGAGATETTE CCAATGAACE TCAATACACG ATCGTAATAC TCGCACAATG



	 AAATGTTAAG TATGATTCTA GACTTCACTG ACTATCACAA TGATATTTTC	150
	TCGATCGCAC TAGTGCACAA CAAAACACGA TGAGTGCAAT GTGAAAC	197
· 5	(2) INFORMATION FOR SEQ ID :32:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 97 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :32:	
	ACAAAAGTCT GAAGAAATCA CCAACNACAA GACGATTAGA AAATATGTTG	50
20	TTGGGGTCAC AACTAAAAAG TCCCTGATCT ACATTGNNTT TCNACTC (2) INFORMATION FOR SEQ ID :33:	97
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 260 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :33:	
	CAAATAAAAC AANTNTTGTA AAGCTACAAT AGTTATATAC CAAAGCAATA	50
35	CCTATTACAT GCTTTACACA ATCCCATGAA AAAATAATTT AATAGCTCCT	100
	AATCCCTGAT GCAAGGCACT TCAAAGCACC CGCACAAAAC TCCATGAAAC	150
40	AACATACAAT ACATCATTTA AATAACATAA ACGACTTTCA CACACTTGAC	200
40	CTACCAAAA ATAAAATCCA TACAACCACA CCTAAAAACA TCTTAACATT	250

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	.•	CACAATAAGA	260
		(2) INFORMATION FOR SEQ ID :34:	
5		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 168 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
10			
		(xi) SEQUENCE DESCRIPTION: SEQ ID :34:	
15		GGACNTGCGC NNNANNNANA GCCANTGAAC NCAGCCACCA NTGCAAGAAG	50
		ACTGCCTCTT NCCAGGCAAG ATTTTACTGG AGCAACANAA CCGGAGGTGT	100
20		GATCCAAAAT ACCTTCCTTN CCAAGCCCGG GGTNNNNGAT AAGGTGTGGA	150
		NTTNGGTTAA AGACAAGG	168
		(2) INFORMATION FOR SEQ ID :35:	
25		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 173 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
30		(D) TOPOLOGY: linear	
		(xi) SEQUENCE DESCRIPTION: SEQ ID :35:	
35		CTCGNACACT GTGGAGAGCC TGCGNNNNNN NNGGTNTACT CAGGGGGACG	50
		AAAAGGAGNN GAANAAGTGA CACNGCNGNT AGCAGAGNGC ACAGAGCTGT	100
40		GCTNNNGTGG TCCCTTAGNA 3CCGAGNAGG TGGGCGCGAG GTGAANAAGG	150
		TGCNNGTGCG AGAGTGCGTG ATT	173





(2) INFORMATION FOR SEQ ID :36:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 134 base pairs (B) TYPE: nucleic acid 5 (C) STRANDEDNESS: double (D) TOPOLOGY: linear 10 (xi) SEQUENCE DESCRIPTION: SEQ ID :36: 50 AGCAAGTNNN NNNNNNCATC CTGAAAGTCA AAATGGAATT TGTGTTTATA CAACTAATAA TGATTTTTAT TTGCTCAGTA CAGACTNATT TACAATGAAA 100 15 GTTTTGCTAA CCTTGGTAAG CTTGTTTACC GTTT 134 (2) INFORMATION FOR SEQ ID :37: 20 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 160 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID :37: 30 TGGCGCCTGT CCGAGAGCAA GTNGNNNNNN NNCCTGAAAG TCAAAATGGA 50 ATTTGTGTTT ATACAACTAA TAATGACCTT TTATTTGCTC AGTACAGACN 100 GATTTACAAT GAAAGTTTTG CTAACCTTGG TAAGCTTGTT AACCGTTTAC 150 35 160 ATGACTTCTT (2) INFORMATION FOR SEQ ID :38:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 140 base pairs

	(D) TOPOLOGY: linear	
· 5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :38:	
	CTAGTTTAAT GAATCTGAGG GGCTACTATA AACAATCCCA CCCTCACACG	50
10	ATTTTTTACC TTCNTTACTT NGCCCTTCAT TAGGCAACCC TAGCAGCACT	100
	CCACCTCTAT TCTCGCACTG TCCAAGAGGC CCACCTAATC	140
15	(2) INFORMATION FOR SEQ ID :39:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 203 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :39:	
	AGCAAGTATC ANNNNNNNN ATACATTTGA ATTCAAGTTG TTTTTTGTCA	50
	AATTGTACAG TGTGTCAATT GATCTTCAAG CTGNNGGTGC CTAGAAATGG	100
30	GNCGGTGTCT GTAGCCCTGG CATGTGCACA CGGAGCATTT GCCACCACCG	150
	CAAGCAAAAA GTCTGGGNGA AGTTCACCAA NGNCAAGAAN NATTANGGGA	200
35	AAA	203
	(2) INFORMATION FOR SEQ ID :40:	
	(i) SEQUENCE CHARACTERISTICS	
40	(A) LENGTH: 170 base pairs	
40	(B) TYPE: nucleic acid	

(C) STRANDEDNESS: double

40

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :40:	
	GAAAAGCNNN NNNNNNGGC TTAAAGAACA ATATGCTGAG ATGGAGAAGG	50
10	ACCTAGCGAA ANTNNNAACC TTTTAAGAAC TTGAANNACA ACAATCACAA	100
10	ACTANTGAGA AGATGTTCAC CTCTCTCCTG ANANCTATGC CCACCAGACC	150
	GTTTAGCCTC TGCTCAAGCT	170
15	(2) INFORMATION FOR SEQ ID :41:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 270 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :41:	
	GCTGCATGTT TCCTTGNATT TGAGCTTGAA AGTTCAGAGC TGTTTACCCA	50
30	AAAAGGGAGC CAATAGAGAT CTTCCCAATG AACCTCAAAC ACGTCGTAAT	100
	ACTCGCACAA TGAAATGTCA AGTATGATTC TAGACTTCAC TGACTCATCA	150
	CAATGATATT TTCTCGATCG CACTAGGCAC AACAAAATAC GATGAGTGCA	200
35	ATGTGAAACA TCTACAAAGT AAATCACACA CTGTTTTTTT AAATNCATAG	250
	AAATTTGATT TGTAATAAAA	270
40	(2) INFORMATION FOR SEQ ID :42:	
	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 245 bas pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :42:	
	AGAGCTGCAT GTTTCCTTGA TTTGNAGCTT GAAGTTCAGA GCTGTTTACC	50
10	CAAAAAGGGA GCCAATAGAG ATCTTCCCAA CGAACCTCAA TAACGATCGT	100
	AATACTCGAC AATGAAATGT TAAGTATGAT TCTAGACTTC ACTGACTATC	150
15	ACANTGATAT TTTCTCGGAA TCGCACTAGT GCACAACAAA ATAGATGAGT	200
	GCAATGTGAA ACAATCTCAA AGTAAATCAT ATACTTGTTT TCTTA	245
	(2) INFORMATION FOR SEQ ID :43:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :43:	
30	TACACTGNGA AAATGTACAA AGAAAGTATC CCCAAATNAT TTACAAAGCC	50
	TAAATGTCCT TGATACACAT ACACGGNAGT ATGCAGACAA CAAAGATTAA	100
35	ATGAAGACAC TTTACACTTT TCGG	124
	(2) INFORMATION FOR SEQ ID :44:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 144 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	



(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :44:	
	GAGTTCTCAC GAATACACAG GTTCAGAGAG ATGAGANGGA ANAACATAAG	50
	GCAAATTCCT AACANNCGCT AATATAGGAG GCCGCTCGAT AGGATTTTAA	100
10	AAAAATAAAA ACAATCTTAA TAGTGGGACA AGGCCATCAG AAAA	144
	(2) INFORMATION FOR SEQ ID :45:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 177 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :45:	
25	ACTGATTCNN NNTGAAAATA CCCCCTTTCT CCATTAGTGG CATGCTCATT	50
	CAGCICTTAT CTTTATATTC CAGTAAGTTA TTTTGCTCTC ACTGTTTTAA	100
	CAAAAAAAA AACAACAACA TAAAAATCCT TGCAAACCAT GTCAATTGGA	150
30	GAAATTTAAT GTTTTTCATA ACATGAA	177
	(2) INFORMATION FOR SEQ ID :46:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 256 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

44 (xi) SEQUENCE DESCRIPTION: SEQ ID :46: ACTGATTCTG CGAAAATACC CCCTTTTTAT TAGTGGCATG CTCATTCACT 50 TTATCTTTAT ATTCAAATAA GTTATTTCGC TTTCACTGTT TTAACAAAAA 100 5 AAAAAAAAA AAAAAAATAC AGCCCTCCCC AATCGAAGAT TTCAACTTTT 150 TAATTCACAC GGAAAAACCA AGACAATTTC ACAACTTCTG GACACAACCA 200 10 TCAACACAGG ACATTTTTT TACAGGCAAA TCACTTAAAA CAAAAAAGAT 250 256 CCCAGA (2) INFORMATION FOR SEQ ID :47: 15 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 155 base pairs (B) TYPE: nucleic acid 20 (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID :47: GAGAAAAGTC NNNNNNNNA GGTTAATCTA ACTTTTCTTG CTTATTTCAG 50 CTATGATCTG AAAGGATGGA AGACACAAAA TGTATGNNTA AGGTATTTTT 100 30 150 AACAAAGATA CATGGGTAAA TTAACAGCAG TAATGTAAAA AAGACTGAGG 155

(2) INFORMATION FOR SEQ ID :48:

AGCAA

35

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 68 base pairs
 - (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID :48: GCTTATTTTA CTATATCTAA AGGATAAAGC ACAAAATGAT GAATAAGATA 50 68 TTTNNACAAA GATACACG (2) INFORMATION FOR SEQ ID :49: (i) SEQUENCE CHARACTERISTICS: 10 (A) LENGTH: 244 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 15 (xi) SEQUENCE DESCRIPTION: SEQ ID :49: 50 CCTGAAAGCA AAGCCATNNA AAGCTTAGAG ACAAGCACNT GAGATGCAGG 20 GGCCTAGCTA AATTTNGAAC CTGNTGGAAC TTGAACCACA ACGATAAAAA 100 ATTACAGAAG AGTTCACCTC TTTCTGAAAA CTATCCACAG ACCGTTTACC 150 25 TCTGCTTCAA GCTANCAATA TATCAATGGC ACTCTCATAN CAGAAGAAAG 200 AAGTTCCTAC TAGCTCCTGA TTATATTNAA GAAGATGCCC ATGG 244 (2) INFORMATION FOR SEQ ID :50: 30 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 81 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 35 (D) TOPOLOGY: linear 40 (xi) SEQUENCE DESCRIPTION: SEQ ID :50:

ACTCGNNCAG CGATAGTCGG AGCTCACCAA CAAAAACNCT NNNNCAGAAA

	GGANAAAGNG CCGCCCTACG TGGTACACAC A	81
	(2) INFORMATION FOR SEQ ID :51:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 223 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		٠
	(xi) SEQUENCE DESCRIPTION: SEQ ID :51:	
15	GTACTTACTG CACTATGAAA AGCAATAGAT CGTCCATAAG TTATAACCAA	50
	AATCTCTCCC TCAGGAATAT ATTCCATACT ACTAACAGAC ATATTAAAAT	100
20	TTAGAGATTT CACTTCTGTC ATAGTAGCAT GATCCCAAAG TCGAACAGTT	150
	TTGTCATCAG CAGAAAGAAT CTGTTTATCT CACTGCACCA CAGAGCTTTT	200
	TTATACCAGA AGNATGACCA CTG	223
25	(2) INFORMATION FOR SEQ ID :52:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 49 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :52:	
	TATGGTTTNT TGTAAAAAG CTCANNNANA AAGGGANNGG CTTAAGAGA	49
40	(2) INFORMATION FOR SEQ ID :53:	
40	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 213 base pairs	
	•	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
.5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :53:	
10	CAACGTCAGA GCACACNNNN NNCTCAGNGC ANAGGCATGA CAGGAGCTCA	50
10	TANCHATAAG CCATATAANN NTGTTACCTG TATAGAATGA TGAATTATCT	100
	TTCTAGAGTC TATACCTACA GTTCTCTGAG CTAATCAATG GAAAAGATGA	150
15	TCAATCTGAC TAACAAGAGN AATTGATTCA TTTTCTTCCA CNCCCCTTCA	200
	TTCAATAATC AAA	213
20	(2) INFORMATION FOR SEQ ID :54:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 166 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :54:	
	GCGTGTTGTG NGGAGTGGNN GTCTNGTCNT CCTGTTAAGG TTTTTGTGTG	50
	CGTNNTTGCG TANGGGGNGG GTTTNGGCAG GTGTTGCCGG TAGCNAAACN	100
35	GTTGGCCCCA TNGCCNGNAT TGNNNCCCCN CNNGGGAANG GGGGGGGNGA	150
	CCNNAGNGGG AAAAAA	166
40	(2) INFORMATION FOR SEQ ID :55:	
	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 75 base pairs

. •	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
	·	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :55:	
	ACCTCATAGC GAACTCGTCN TATAGANNNN ANNTGAGTCG AGCTCGATGT	50
10		
	NGNCGTTGTN GCTGCCAAGC GACAT	75
	(2) INFORMATION FOR SEQ ID :56:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 181 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :56:	
٠	(XI) SEQUENCE DESCRIPTION. SEQ ID .30.	
25	AATNNNNCC TATTTTGTAA TTTTTTTGAA AAAAGTTCAA TGTTCAGTTT	50
	TCCTTAGTTT TTACCTTGTT TTCTCTATAG GTCATGATTT CTGTGAAGCA	100
	AAAAGATGCC TTTTACCATG AATTCTTGAG TTTACATCAA TAATATTGTA	150
30		
	TATTAAGGGG ATCAGAAGTA GGAAGGAAAA A	181
	(2) INFORMATION FOR SEQ ID :57:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 130 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

••	(xi) SEQUENCE DESCRIPTION: SEQ ID :57:	
	TCGAAGAGAC CTCAATCACC GTTTTTCAGG ATGTTTGATC ACAATACGAA	50
· 5	GATGACGNNA TCCAATTTCA GAACACCACA GGGCACTGGC ACACAGAGGG	100
	GATTATTACA GAACCACTGA GATGACATTT	130
	(2) INFORMATION FOR SEQ ID :58:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 157 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
15	(b) 10102001: 22541	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :58:	
20	· · · -	
	GTNATTTTGA AGGTCTCACA AATNTAAAGA CTTATTGTAG CCCATGAACA	50
	CATTGACAAG TACAAAAATT ACAAAAATAT GCAGAAATAT TGAATAACTA	100
25	GAACACAAGC CACTGTTTCA ACTCCAGAAA AAAGAAAGGC TTTACTTTTT	150
		157
	CCATGAA	157
	(2) INFORMATION FOR SEQ ID :59:	
30	(2) INFORMATION FOR BEQ ID .33.	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 252 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :59:	
40	·	
		E C

50

	CTTTTTGNAC TCTCTATGAG TTCATGAATT TAACCAATAC GNCCACAAAT	100
	GCTGCTGCTG TCACAGAGAG ATGCCGATAA AGGACACCCA CCACCAATTT	150
5	TTGAACAGGG AGGGGAGAAT CAACTCTGAA TGTGATGCAG TGACCAGGAG	200
	AGAGGACCAT GTTAACAACA CCACACAAAT GCAAATGACT NGTTCTNAAA	250
	CA	252
10	(2) INFORMATION FOR SEQ ID :60:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 198 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :60:	
	GACCTCGTTT TTCATCCTAT TATGGCGTTT ANCAGGCTAG ACAGAAACAC	50
25	GCCTTAACTT TANTTGCCAC AAATCTTAAT ATTTTCTCCA CTAATATTAG	100
	AAAGGAAGCA ACAAATAATG TCGCTTTTCA CCTGACGTCT GGTTCAACTT	150
20	TCCGCCCAGC CTATTCCTGN GTCTTCCTCC TGCCTTTCTA ATGTCCCA	198
30	(2) INFORMATION FOR SEQ ID :61:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 229 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID :61:

	GAGGTGGCAT TATGTGAGAC AGCATTTGGT TAGGGAGTGC CAAGCATTCT	50
	ACAGCATTTG ATGGTGGAAA TAGTCATGCT TTTTATTTCT GCTCTCTAGG	100
5	AATGTAAGGT GCACAGCAGG TCAGGGTACT GCTGTGAG ACAAAAGGTC	150
	CAGGTAGAGG CAATTCCCCA GATGCAGGCA GGGCAGGTGC TCACTGGGCA	200
	GAGTGCTTCT CATACACCTT CAGGAACCC	229
10	(2) INFORMATION FOR SEQ ID :62:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 181 base pairs	
15	(B) TYPE: nucleic acid	
13	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(D) TOPOLOGI. IIMear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :62:	
	CATCCTGGGC CCTGGCCGAT GTGCATATCA ACANAAAAA GGGACTGAAG	[,] 50
25	AACATCGGCC ATATCATCCA CACAAGCCAA ATCTCACACC TTTACTTTAA	<i>:</i> 100
	ACCCCTTAAT GAATTTCATG ACCTTGAGGG CTAAAGATCG TTCTTCGGGC	150
	AAGAGCTTTT GGACTGTTTT TAGAACAGAA T	181
30		
	(2) INFORMATION FOR SEQ ID :63:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 180 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	• •	
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID :63:

	GTTGATTGTG AATCATCCCT CTAACATATA ATCAANANTA TGAGTAGAGA	50
	ATTTGGCAGA AACAAGAAAA GGACATGGGA TAACTTTTAG ATTTAAAGAG	100
5	GCAGGCTTGG AACACAAACT GGTATTCTGC TGACACACTG CTGCATATCA	150
	TAAGGCTACT CCACAAGACC ATTAGAAGTC	180
	(2) INFORMATION FOR SEQ ID :64:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 120 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	•
	•	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :64:	
20	ACAATGTTCC AACATATATA TGGGGAGGGG AGAACANTTA TCTGTATAAC	50
	AGGGAACTGT GATTATTTAA AAATANGCNA GAACTTATTT CANCTGTGCT	100
25	TTAGAAANAA NTGTATACGG	120
	(2) INFORMATION FOR SEQ ID :65:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 70 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
3 5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :65:	
	CACATCGCTA TAATCCTTTC TGAGGACTTA AAACTTTATN CCACTTACCT	50
40	TTATGACTTT TAACAAGCCT	70

(2) INFORMATION FOR SEQ ID :66:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 240 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

10

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(xi) SEQUENCE DESCRIPTION: SEQ ID :66:

	TTTCGAGCAA	AATGTTTACA	TTTACATGGA	AATACACACT	AAAACAGAAT	50
15	ATTTTCCTAA	TCATGAAACT	TCGCCAAAGC	AAAATACAAA	CTTCCAACGG	100
	GAGGTCCACT	СААСТААСАА	CAATGATCCC	CAAGCAGGGC	ACCAAGAAAC	150
20	CTGGGGGACC	CTTTNCAAAA	AACCTCCTTT	CAAGAGACCC	TAATACTCTN	200
20	TCCACACACC	CACACGATTT	AGGAACTTGG	ACATGTTCCT		240
	(2) INFORM	ATION FOR S	EQ ID :67:			

25

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 254 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

30

(xi) SEQUENCE DESCRIPTION: SEQ ID :67:

35	GGAAGCACTA	CATTTCATCC	AAAGCTGGGT	TGAGTTATTT	TTGAACACTT	50
	TACGATATGC	TTAGGTAGGC	TTTTAACTTG	CTCCTCCAAA	CAATATCTNT	100
	TGGGAAAACA	AGCCCTGTGG	AGAGATCCTT	CCATCAAGTC	GCTTCAATTT	150
40	AACCTATTTC	TAGAGGACTA	GACATGCAGA	ATCGTCAACT	ACAGGGAATG	200

		AAAAGTTCAA AAAGTAGATC CTACAAGATG AACGAGTACT TTTCTAAACA	250
		TAAG	254
5		(2) INFORMATION FOR SEQ ID :68:	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 192 base pairs	
		(B) TYPE: nucleic acid	
10		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
15		(xi) SEQUENCE DESCRIPTION: SEQ ID :68:	
		AGGCACCAAA GAAACACCAA GCAATAAAGT GAAAGACTAA CCAAGATTTG	50
20	•	ACATTGTATG NTTACTGTAT TCTTTAAGAA ACAACTACAA AAAGAAAATG	100
		TCAACAAATN NNNACAACTG AGAACCTGGG AATTCCCGCA CGGAAGACAA	150
		GAGATAACCT CTCCAATTTA ACACCGCTAG GNTTCTATNN TA	192
25		(2) INFORMATION FOR SEQ ID :69:	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 112 base pairs	
		(B) TYPE: nucleic acid	
30		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
35		(xi) SEQUENCE DESCRIPTION: SEQ ID :69:	
		AGCAGCGNNN NNNNTNNAAA CAAAAGACAG GAGCAGAGAG GCCTGAGAGC	50
40		AGGAGGCGAA TTCGATCTCT CCTCACAAAC AGCCCAGGAA AATATACACC	100
		CCGGGGAAG CC	112

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 232 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :70:	
	(XI) SEQUENCE DESCRIPTION. SEQ 1D ./o.	
	AAGGGTCTCC AATTTAATCC TTGGGTTGTT TTACCACTTC TTTCGTAAAT	50
15	TTATCAAGAT TTCTTTCGCA CAAATACTCT AGCGCCTCAC AACAAACCTG	100
	ACCTTGCGCA GGAAGTCGAC CATCAGCACC CCCTTTACAA CATCGTTCAT	150
	ATCACAATTG AGAAGATGAT GAATGAAGAT TCGCTTCCAA GTTCCAAGGG	200
20	MICHONITO AGANGATURI GANTGARGAT TOGOTTOCAM GITTOCAMOGO	200
	CAGATTTATT CCTTTAACTG ACATTTCCAT GA	232
	(2) INFORMATION FOR SEQ ID :71:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 160 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	, , , , , , , , , , , , , , , , , , , ,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :71:	
25	CUMOCA MOCC. NOCEMENTA CNOCA CONCO. NOTECCA COCC. ANA AMERICA DET	5(
35	CNTGGATCCG NCCTTGTTAC GNCCAGGACG NCTGGACCGC AAAATGAATT	5(
	TTCACTTTTC GACCACCGCC AGAAGAGATG ATTTTCTCAT CATNAACAAG	100
	GAACCTTTGA GGAGATCGAC TGAAAGACTA GCGNCCCNGT CAGATAAGAT	150
40	·	
	TTAGGGCTGA	160

		•
	(2) INFORMATION FOR SEQ ID :72:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 182 base pairs	
· 5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :72:	
	AAGGAAGACT GGTTTGCCAT CCGAGATCAT TAAAAANGNC TGACCCTAAC	50
15	AATACGTACA AAAATATAAA ACGCAAATAA AAAATACAAA CAGATTCCTT	100
	CTTAAAGTAC TTTTAAGAAA AAAAGCAGGN CCTTGGAAGT TTCGATTCTT	150
	TTTTCCTCCC GTCGCAAATT CTATGTTTGG AT	182
20	(2) INFORMATION FOR SEQ ID :73:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 168 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :73:	
	CAAGAGGCAG CTGCCCCTCC CACCTCGGAG GNCTGAGAGG GNCTGTGNCG	50
35	ATGAGCTGGA CGAGCACAGC ACTAAAAAGG CTTGCCCTNG CACAATAACA	100
	CTGAGAGGAT GATGAGAACA CNCTTGAAAT GCTTCATNCA CATGGGCAGG	150

(2) INFORMATION FOR SEQ ID :74:

ANAGGCTGCA CAATGAAA

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 221 base pairs

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :74:	
10	AACCTTTATT CATCCTCCTN TCCAAGACCT ATGAGAAGGT TCCAGGCCCC	50
	AGGAACACAG GCTTCTTGGC CCCAGATGCA CCTCCCTGCA CCCCGGGGTT	100
15	GTATACCACA CCCCGGGCCC CTAATCCCAG GCCCCGAGAT AGGAAAGCCA	150
	ACTAGTTCTT TNTNTGTGAT TCAGTAGGCC TGACCTATAG NTGGAATGTC	200
20	NCTNTCCCTN NAATAAATTN C	221
	(2) INFORMATION FOR SEQ ID :75:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 127 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :75:	
	AGACTGNTTG GGTCATCCGA GATCATTAAA AATGNCTGAC CCTAACAATA	50
35	GGCACAAAA TAAAAACGAA ATAAAAAACC TCCTTANNTT CGAAGTATCT	100
	TAGAAAAAA CAGGGCCTTG AGTTCTG	12
40	(2) INFORMATION FOR SEQ ID :76:	
40	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 180 base pairs	

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58

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
· 5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :76:	
	AAAAGAACAG CAGTTTCACA TTTCACATAT TTGAAAAACA TTTCAAAACC	50
10		
	CTCTAATAAG TATTTAATGA AAATAAATTT ATCGAAGAGA AACAATGACC	100
	ACAAAATTAA TACTACCAAA TCATTACTGA GACTCTTGCA TTACAATATT	150
15	TGGAGAGTAG GTGAAGAAAA TNTAGACCGA	180
	(2) INFORMATION FOR SEQ ID :77:	
	,	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 142 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :77:	
	GATTAANNNN NNNGCACCCN NNATTACTGG CACAGCTGGT GAATATTTTC	50
30		
	GTGGACTTTT GACTAGTGCA CCTGCGTGCG GGAAAACANT GATAAAACTG	100
	TCACTTTAGC CNCNAACTAC AAGACCNGTT AGACTAGAGA GC	142
35	(2) INFORMATION FOR SEQ ID :78:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 124 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :78:	
	GGCCCTGAGA GCAGGACGGC GAATTCGATC TCCTCCTTCA CAAACAGCCC	50
5	ANGGAAANTA CACCCGGGG AANNCCCCNC NCNNTTAGAA CCNNCAGGNT	100
	CTGNCCCCC CNNNGNCCCC CCCG	124
10	(2) INFORMATION FOR SEQ ID :79:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 171 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :79:	
	AGGTATAGTG TTCCCTAATC ATGTACTTGT GAAGCACCCG GANTTTTTCA	50
25	TATAGTCTAA AAGCTAGAAG AACAAGAGTG TATTTCGTGG GTGGATGTAT	100
23	NGTCACTTGC TGAANNNTT GAAATACCAT TATCCCCCTT GCTAACNCCT	150
	TTAAGNAAAN GCCNTTTTAA G	171
30	(2) INFORMATION FOR SEQ ID :80:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 98 base pairs	
	(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :80:	
	CTGAACAGTG TGGTCGAGCA TTCCAAGTCC GTGAAGGTGC AGGAGCGGTA	50

	CGACAGTGCC GTGNGGGCAC CATGGCACCT NGACCACGGG CNCCTAAG	98
	(2) INFORMATION FORQ ID :81:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 108 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	·
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :81:	
15	CCTCAACAAG TGCGAGACCT GGGCGTCCAA CCTGCCTACA ACCACAGCCG	50
	CGAAAGAAGA AGACCTGCTG CTTCAATACA ACACGGGAGG ACCTGGCCAT	100
20	CAACATCA	108
20	(2) INFORMATION FOR SEQ ID :82:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 180 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :82:	
	ACACATNACC CACNGCCAGT ATATCTCGAA CAAAGTCTCA GACGATACTC	50
35	CCT AAATTG TAAAGCTTAA TACAGGTTNT GGAAATCATT TAACACCCGA	100
	GAATGTCCCA TCACAGTCTT CCGTCAAAAT TTAGCCTCAC AACAACAACA	150
	ACGCCTACGA AATTCTAAAT TCAGAAGGAA	180
40	(2) INFORMATION FOR SEQ ID :83:	



(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 199 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :83:	
10	GGCTTCTGAT CGCCATCCTT GAACAGGGCA AAGGTGGCCT CACCAGCCTT	50
	CGATGCAGCT GCCATGCGCG CCAGAATCAG CGAAGGCATA CCCTTACGTC	10
15	GTTGGACGCA TGTTTAGATG CCTTTGAGAC CGCCCAGAGA AGTCCTTGTC	150
	CTTCTTAATA AACACCTCCT CGCCAACTGC GACGACCACA ATCACCGTA	199
20	(2) INFORMATION FOR SEQ ID :84:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 214 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :84:	
	CTTCGGTAGT GCCGCCGTGG TGCCACACAC CGTTGAGGTT GGAGTGGGCA	5
	CAGGCATGGT ACCACCAGCC TCCCCGCTGG TACAGGGCAC AGTTACCTGA	10
35	GGGGAGAGA AGAGTCCATG TCCTCTCACC AGAATAAAAG CCTCTACCTG	15
	CACCTCACAG TGCAAGGCTT TTGCCAGGCA TCCCCTGGCC CCTCCCATTT	20
40	NACNGAATAC AACC	21

(2) INFORMATION FOR SEQ ID :85:

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: base pairs	
	(B) TYPE: r. eic acid	
	(C) STRANDE. ESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :85:	•
10		50
	CCTGGGCAAG CTGAATGTGA AGTTGACCAG GCTAACTGAG AAGCAAGCCC	50
	AGTACCTGGG CATGTCCTGT GATGGCCCCT	80
3.5	(2) INFORMATION FOR SEQ ID :86:	
15	(2) INFORMATION FOR BEG ID 1001	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 210 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :86:	
		50
	GGGGATAGCT GGCTCATCCT CGGAAAACAG ACCCACATCT CTATTCTTGC	50
	CCTGAAATAC GCGCTTTTCA CTTGCGTGCT CAGAGCTGCC GTCTGAAGGT	100
30		
	CCACACGGCA TTGACGGGAC ACAGAAATGT GACTGTTACC GGATAACACT	150
	GATTAGTCAG TTTTCATTTA TAAAAAAGCA TGACAGTTTA TTACTCTGTT	200
	GATTAGICAG TITICATITA TAAAAAAGON TONONOTTIN TINOTOTOT	
35	TCTTTAATG	210
	(2) INFORMATION FOR SEQ ID :87:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 102 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

(D) TOPOLOGY: lin ar

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :87:	
	CACAAAAAGC ATGATCAGGG CTAGCCTCAA TACAGGGAGA AATCATGGAT	50
	ATTTAAAAAT ACTTTTTTT ATTCAGATTC CGGTATGACT GAAGANGCAA	100
10	CA	102
	(2) INFORMATION FOR SEQ ID :88:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 275 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :88:	
25	GATAGGCGCA TGCATACTAC GGCTAAGGAG AAACAATGTT CCTACATATT	50
	ACGGGCAGTG AGAACATTAT CTGTATAACA GGAACTGTGA TTATTTAAAA	100
30	ATAGCAGAAC TTATCNGTCT GTGCTTTAGA AATAACTGTA TACAGTGTTA	150
	TAAGTTGAAA AGAACTCAAA ATAACTAATA CAAATAAGAA CCTACGTATT	200
	AGAATTCAAA AAAGCTGCTT TCTGTGAAGT CAATCAGCTA TATTAAAAAA	250
35	TGACACAAAT TCAAAACACG ATCAT	275
	(2) INFORMATION FOR SEQ ID :89:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 263 base pairs	
	(B) TYPE: nucleic acid	
	(C) CMDANDEDNESS, double	

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :89:	
	GCCTGATGGT ATATACTGTT TTGCAATTGC ATACAACTGT GCATTACAAA	50
	TTAATAGTAA TTATGGTTTG GNNGTAAAAT CGAGTTTCAG AATAAAATNA	100
10	AAAACAATAA AATCCAAAGA ACGATGTAAA CAAAAAAGCT TTTGTTTTGT	150
	TACAAAGTAT ATTAAGGATT TTCTGCTAAG ATTCAGTTTA AGAGTTTTCC	200
15	TCGTGAAAAC TAAGTAGAAA CACAATGCCA ACAGCTGGCC AGTAATCAGT	250
	GCTGTGTACT CCA	263
20	(2) INFORMATION FOR SEQ ID :90:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	·	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :90:	
30	GCGTCCTGCC CAACATCCAG GCCGTACTGC TGCCCAAGAA GACGGAGAGC	50
	CACCACAAGG CCAAGGGCAA GTGAGGCCGC CCGCCGCCCC CGAGGGACCC	100
35 '	CTTTGAGA	108
	(2) INFORMATION FOR SEQ ID :91:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 206 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :91:	
	GCCTTGGTGG AGGGCATGAG GCTATGATGA CTATTGGCTA TAATATGGAT	50
	ATGGCTTTGG CTGATAGATT TGAAGAGACC TCAATTACGT TTTTCAGGAA	100
10	TGTTTGATCA TAGATACAGA GATGGTGGTC CAGTTTTCAG AGCACCACAG	150
	GGCACTGTGT ACACATGAGG GGTTACCTTA CAGAGCCACT GAGAATATAT	200
15	ТААТАА	206
	(2) INFORMATION FOR SEQ ID :92:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 210 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :92:	
30	CCTTGGTGGA GGGCATGAGG CTATGATGAC TATTGGCTAT AATATGGATA	50
30	TGGCTTTGGC TGATAGATTT GAAGAGACCT CAATTACGTT TTTCAGGAAT	100
	GTTTGATCAT AGATACAGAG ATGGTGGTCC AGTTTTCAGA GCACCACAGG	150
35	GCACTGTGTA CACATGAGGG GTTACCTTAC AGAGCCACTG AGAATATATT	200
	AATAAANNNG	210
40	(2) INFORMATION FOR SEQ ID :93:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 189 base pairs

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :93:	
	AGGACTTCAT CCCAGACTCA CTTGTTCTGT TACAGAAACT AACCTAAAAG	50
10		
	GCTGGAAATT AAAGGATACA ACCTAAGAGG TTATAACAGC AGACTGGTAA	100
	AACATGGCGA AAGGAGCTCT CTCTTTCCCC GCAGTCTACC AAGCTCCTGT	150
15	GCATTTCAC CACATAGATC TGCTAGCTTA CAAATGATG	189
	(2) INFORMATION FOR SEQ ID :94:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 160 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :94:	
	GAAGTGACAG GNAAGCTACA GGTGTATAAC AAATTTGTAA ACTAACCAAG	50
30		
	CACAATGTGG CAGGGCCTAG CTGCTACAAA GAAGACAATT TAACAAATAC	100
	TCAACGCATG ACAAAAACT CAGGACTGCA TTTGCACTAA TCGATAACGN	150
		160
35	GTCATTTAAT	160
	(2) TUROPUNETON FOR CEO TO -OF-	
	(2) INFORMATION FOR SEQ ID :95:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 171 base pairs	
40	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(C) DIMMUDDINDO. GOGDIE	

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :95:	
	TGCTTTATAC ATNATNAAAG GTAGGCACTT CATAAAATTT GCATTTTGGT	50
10	AAAAGGCAAC AATTTGATGT CAGTATCTTA ATTGTGTCAT TAACTTTTTT	100
10	AAGAGAACAG ATTATCAAAA TTTTACGAAG AAGAAAAAA NTATAGTTTT	150
	TAAGGAAACT ACAGAAGGGA T	171
15	(2) INFORMATION FOR SEQ ID :96:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 131 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :96:	
	GTGGATAAGA AGATGTGTAC TTGGGAACAA GGCTAAAGCC ATTGGCTGAT	50
30	TTCCCCAACC TTTTTATTCG CGAAGAAACT CCAGTTGTTA ACTTTTTGAG	100
	AGTTTTTTT GGCAAAAGAA CTNCATTTAN C	131
	(2) INFORMATION FOR SEQ ID :97:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 279 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :97:	
	GTCCTAATAT TTCTGTNCAG AAATTGTCAA CTTGACTTGA GAGTTGAGAA	50
. 5	GTAAAGTTAA GGCACTGACA ATATATCAGA ATGGAAGTCC TTAAGAGCAA	100
	CTAACAGGTT CTTGATCAGA CTGACTATCT TTTCTTAAGT TCATAATATN	150
	TTACTGTCCA GCCAACTATA CTTGGATCAA AATATCCTTC ATGAAGGGCC	200
10	ATAATGTATT GATGATCTGC TGTAACTTTG AGAAGCTTCC TGAAGCTCNT	250
	TTTGAATAAA TTTATNGAAC TTATGAAGA	279
15	(2) INFORMATION FOR SEQ ID :98:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 266 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :98: 	
25	GTGAGTCTTT CTTCAACTAG GGGAATGTTT CCAGGGCACG CCAGGCCTCA	50
	CTCACGCAGG CCTCCGCGAC AACTGTTCAG CACTGACTGA GGATGAAGTG	100
30	AAATCCTGAA AGCTGAGAGC CAGCGCCCTC ACACGAGGGC TGGGACGTAA	150
	CAAAAGCCCA TCAAGAGTTT TGCCCAGGGC TTTCTTGAGC CTTGAAGCAT	200
35	GACGAGACCA GGACCCTTTA GGATTAAGCA AGTTTTATGC GGTCTNAAAA	250
	AACTCCAGGG CCTCCA	266
40	(2) INFORMATION FOR SEQ ID :99:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 206 base pairs

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69

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :99:	
	GGGAACATTT ATTGACATGA AAAGGTGTTT CAGATATACT GATATGTCAA	50
10		
	ACAAATAGTA AAACAACATA GAGTAATGAT TCATTTTGGT AAAAAATATA	100
	TATGTATATA TAGAAAAAA TTCTGCAGGA CATATGCTAA ATTGGTAACA	150
15	GTGCTTACCC CTGGGAAGGG GGTATACGAT GTTGATTTAC TCTTTGGGTA	200
	CGTATT	206
	(2) INFORMATION FOR SEQ ID :100:	
20		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 73 base pairs .	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	•	
	A LA GROUPHON ANGENTANIAN GROUP IN 100	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :100:	
30		50
	CGCAACTNTC NCTAAACATC CAGTTTTCTA ATNTAATAAA AAATGGCAGT	50
	AATTATCCTC ACCTCTCAGG GAA	73
	AATTATOOTO ACCTOTOAGG GAA	73
35	(2) INFORMATION FOR SEQ ID :101:	
J.,	(2) Intolumiton for one in the contract of the	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 108 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	· <i>'</i>	

·	(xi) SEQUENCE DESCRIPTION: SEQ ID :101:	
	GAGCACAATC ATGNGCAAGC GCAACAGCAC ACCTTTATCC GAGTGAGACC	50
· 5	ACTATGCAGC NGAACAGAGA CTTCTTATCT CTTCTTCTTG ATACTTGAAT	100
	ACTGCCCC	108
10	(2) INFORMATION FOR SEQ ID :102:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 210 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
13	(D) TOPOLOGY: linear	
	TO TO A 1024	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :102:	
	GAATTATCAA ACCATCNTTG CTGACATTAA TTTTCCAGCT TTGATCTTAN	50
	NTCTNGCTTT AGTCCTCATA CAATGACTGT GTTTTTCTCA LACGATNTAT	100
25	CGTATAGGNA TCCTTCTAAG CAATCCTGCA CCCACAAAAA AGCTGCATCT	150
	TCAATATAAC ANAAAAAGGN ATTTTGCAAA AAGTACAAGT TTTATGTCTN	200
30	CTGTTAACTG	210
	(2) INFORMATION FOR SEQ ID :103:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 76 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID :103:

	CGTAGTTCGA TTCGAGTGGT CTATACAATC ACACCAAGCT TGATGTTGAT	50
	GTCACCAAAA TTTCTTTCCA AAAAAA	76
5	(2) INFORMATION FOR SEQ ID :104:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 167 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :104:	
	CTTATGATTA ACTAAGCAAA TCTTTCATAG AAAGATATTA TCAAAGCTGA	50
20	AGAAATGCAA ACTTNAACAA AGTGCCGTGA GATTCCGGAA AAACCCTTAA	100
20	CCGATTGAAT GGTTTTTTAA GAATAAAAA GAAGTCTGAT ACTGAACTAC	150
	AAGTCGCAAG GAACATC	167
25	(2) INFORMATION FOR SEQ ID :105:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 122 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :105:	
	TATCTGCATA TCTAAACATA GAAAAGCACA ATAAAAACAC ATATCATAAC	50
•-	CTCACGGGAC CACCATCATA CAGCAATTTG TCATGATCAA AAGAAACATC	100
40	ATTAGTCGTG CCATAACTGT AT	122

	(2) INFORMATION FOR SEQ ID :106:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 255 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :106:	
	GAATTCTTCA CTCCAGATTT CCAATGCCAA GATACATTGA TACTGAACAT	50
15	GGAGGCAACC AGGCCCGTTT CCTCCTTTCA AAGTCAACCC TCACAGACTC	100
	ATAATAATAT GCATGCCTGG GGGCAGGAGT CTGGAGCACC TATTCTNACA	150
20	GATGATGTTA TTTACAAGTG TTTATGGATC ACTTGAAGAA ACTTGCTGTG	200
-	TCCAGTGCTG CTTGAAGTGC TAATAATGTT AAAGACACTT AAGAAGATGA	250
	AATAA	255
25	(2) INFORMATION FOR SEQ ID :107:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 227 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :107:	
	GGACGTGAAT TGGTGGAATA TTTACAAAGA AAACTGTTTT CTCAAAACAC	50
40	TGTTCATTGG TTGCAAGAAT GAATACTGAC TTCAGAACTC AAACAATGGA	100

AGAACTTGCA TTTTTATGGA ACTCAGTATT AAAAGAAAAT ATAATGTGAT





	73	
	AGCACTTTGC AGATATGTCT AGACTGTGAT CTGAAGCATC GTAGTTTCCT	200
	ATACCAAGAN ACANTTATGT GGTAAAT	227
5	(2) INFORMATION FOR SEQ ID :108:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 162 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :108:	
10		
	GAAAAATNGC ATGAAAGAAG ACTCTTNNNN NGCCATACCA TGGTACAATA	50
	ATCATNAAAA NACAANAACA AAAACAAACA CATAAAACCA CTCACATATA	100
20	CATGTAGATA CAACAACNAT ATAATATCAA TAAAAAAAA ATAGNAAAAA	-150
	ААААААТАА СА	162
25	(2) INFORMATION FOR SEQ ID :109:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 154 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :109:	
	AATTAAAAAT ATTAAACAAA ACTACCACTC CTCCTTATTA AAGCCCATAA	50
	AAATAAAAA CGAAACCCGA GAACCAAAAT GAACGAAAAT CTTTCGCTTC	100
40		

ATTCATCGTC CCCACAATNC CAGGCCTACC CCCCATACTG ATCATTCATT

	• •	GTTT	154
		(2) INFORMATION FOR SEQ ID :110:	
5		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 182 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
10			
		(xi) SEQUENCE DESCRIPTION: SEQ ID :110:	
15		ATGTGCCAAG TAAAAAATCA ATTNGTNGCC TTTTTCCATT NCGCGGACAC	50
		CCATAGGCAC CAAAAAAGG TGCTAATAAG TAACATGTTT TAAGATGCAG	100
20		AATAAGCTAT GGAAACAAGG AATGCTCCAA GTGTCCCAGT CTTTCTCCTT	150
		GCACTCCTTG TTAATAACAA TACACTATAT CA	182
		(2) INFORMATION FOR SEQ ID :111:	
25		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 94 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
30			^
		(xi) SEQUENCE DESCRIPTION: SEQ ID :111:	
35		GAAGGTGAGA ATAGGGTAGG GGAAACAGTA GGACAGGAAG TATTCACGTA	50
		CNTCAAAACC AATGGTAGAA CATCACATTT CAAACTGCAA ACCA	94
40		(2) INFORMATION FOR SEQ ID :112:	
-30		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 92 base pairs	

•	(B) 1112. Mac1010 1014	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
· ₅		
	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :112:	
	(32, 32, 32, 32, 32, 32, 32, 32, 32, 32,	•
	TAGGGCAGTG AAACCTAATC TGCCTGATGC TATAANTGAN TGAATTACAT	50
10		
	GNTCATTNGT TAAATTTTGT TCTAAACCCA TTAGGAAATT GT	92
	(2) INFORMATION FOR SEQ ID :113:	
	(5) 2 0	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 152 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(b) TOPOLOGI: Timear	
20		
	() CROUPINGE DECORIDATION, CRO. ID .112.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :113:	
25	GATTGTTTTT GCATTGCGTG TGTCACACAG CAGCACAAAG ACAATATATG	5.0
-25	GATIGITITI GCATIGCGIG IGICACACAG CAGCACAAAG ACAATATATG	5,0
	#N.N.C.C.(MNN.N.	100
	TAAGCGTNNA TACACCAGAT TTGACACAAG AGATAGCGAA CACCACAAAG	100
	AMENOCANO AGGGGGGAMAN GENAGOMGANA GANAGONA GANAGONA	150
30	ATTAGGACAG ACCGCGTATA GTAGCTCTGA GGAACTCCAA GAATCTAGAG	150
30		150
	GG	152
	(D) TUDONUMTON DOD TO TO 114	
	(2) INFORMATION FOR SEQ ID :114:	
25	//	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 182 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :114:	
	TTGGCACTGA CATCCAGGAC AACAAATGCA GCTGGCTGGT GGTTTCAGTG	50
5	TCTGCAACGG GCCACTCCAG AACAGTACCA ATCCTGAAGG AAAATACNTG	100
	GCAGAAGGAG GCTGAGAAAG TGGCTCCGTG AAGGCNCTAT AGAGGGCTGA	150
	TCTGCCAGCA TGTCTTCAAT ATGAGGAAGG CA	182
10	(2) INFORMATION FOR SEQ ID :115:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 182 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :115:	
	GGCACTGACA TCCAGGACAA CAAATGCAGC TGGCTGGTGG TTTCAGTGTC	50
25	TGCAACGGGC CACTCCAGAA CAGTACCAAT CCTGAAGGAA AATACNTGGC	100
	AGAAGGAGGC TGAGAAAGTG GCTCCGTGAA GGCNCTATAG AGGGCTGATC	150
30	TGCCAGCATG TCTTCAATAT GAGGAAGGCA NT	182
30	(2) INFORMATION FOR SEQ ID :116:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 227 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :116:

GAGGTTCTTG AATATGTATT TTTTACTGAA AAAATCATTC ATAAANTAAC 50 ATACAAAAT GTACAAACAC ATGAGTAAAT AATGTAATGA CAAAGGACTA 100 TTTTCGGAAA AGTGTTTTTT AAAACANNCT AGATTTCAGT GCAAAAATGT 150 · 5 200 ACCCCTGGCA CCTCTTAAAA CGTAAGAGCA AGCTCAAAAA CACGTAGTGA 227 TGGAAATAAG CTAGCTACGC TCAATGC 10 (2) INFORMATION FOR SEQ ID :117: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 172 base pairs (B) TYPE: nucleic acid 15 (C) STRANDEDNESS: double (D) TOPOLOGY: linear 20 (xi) SEQUENCE DESCRIPTION: SEQ ID :117: CGAGAGATTG GTAATGAGGA AGCAATTTGG AGGGGNGGAA GCTACAANGA ·· 50 NNNNGGGAAT TACAACAATC AGTCTTCAAA TTTTGGACCC ATGAAGGGAG -100 25 GAAATTTTGG AGGCAGAAGC TCTGGCCCCT ATGGCGGTGG AGGCCAATAC 150 TTGCAAAACC ACGAAACCAG GT 172 30 (2) INFORMATION FOR SEQ ID :118: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 210 base pairs (B) TYPE: nucleic acid 35 (C) STRANDEDNESS: double (D) TOPOLOGY: linear 40 (xi) SEQUENCE DESCRIPTION: SEQ ID :118:

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	AATGATGGAA GCAATTTTGG AGGTGGTGGA AGCTACAATG ATTTTGGAAT	50
	TACAACAATA GTCTTCAAAT NNGGACCCAT GAAGGGAGGA AATTTTGGAG	100
5	GCAGAAGCTC TGCCCCTATG NCGTGGAGGC CAATACTTTG CAAAACCACG	150
	AAACCAAGGT GGCTATGGCG GTTCCAGCAG CAGCAGTAGC TATGGCAGTG	200
	GCAGAAGATT	210
10	(2) INFORMATION FOR SEQ ID :119:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 95 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :119:	
	GGTAAACACA AAGAGTTTCT GATAGTGTCT GCACAACAGC AAACCAACAT	50
25	TTGGTGAGGA ATTAGCAATT TCTTGCCAAA GAAAATTGAT TCTGC	95
	(2) INFORMATION FOR SEQ ID :120:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 168 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :120:	
40	GGAGTATTTN AANNTTTCAA ACTTTATTAC TTAATGAAAC AGTTTCTATA	50
40	TACTGCTTCC AATATACTTT AATCCTTTTT TTCTCGTTAA ATTTTTTTTG	100

	TTGTTCTTCA GTTGAGCTGA GATACTTTTA ATTACTTTTT ATTAACTGCT	150
	TCCAGAAACC GTAACAGG	168
5	(2) INFORMATION FOR SEQ ID :121:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 231 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :121:	
	GGAGTATTTA TCTTTCAAAC TCCNTACTNA GTGAAACAGT TTCTATACCA	50
20	CTGCTTCCAA TTACTANCTN TTTTNTCNGT TAAATTTTCN NCTGTTTTTC	100
	AGTTGAGCTG AGATACTTTT AATATNNNGT NACTGCTTCC AGAAACCGTA	150
	ACAGGTGCAG GAATAATTGA TGATATCCAA GTAGAGGCTG ATGNCAGCTA	200
25	ATACATACTT CGGTGACNTT ATGCATCATG A	231
	(2) INFORMATION FOR SEQ ID :122:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 174 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :122:	
40	TCTATGGCAT GAATGTTTGC AACCAACNNN NNGGAAAGCC TTAAAGGAAT	5(
	AGCTGTTCAC ATAGGAGACC GTGACAATGC TGTACGCAAT GCTGCACTAG	100

	ACACCATTGT ACGGTGTACA ATGTCATGGG ATCAGGTGTT CAAACTGATT	150
	GGAATCTTTC TGAAAAGGAT ATGA	174
5	(2) INFORMATION FOR SEQ ID :123:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 170 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :123:	
	CTNNACAGGA GAAGNAAGTA ATGATCATTC CCCAAAAATG TTCTGTTATC	50
20	AACTGNNTTT ATAAAAAATC GATTGTGGGT AGAAGCAGAG AAAAGGCACT	100
20	TAGTAAAGAT ACTACATGAN GAAAAANNTC TGCCCTTTGA ATTCTTANGA	150
	AACATNNTNG NNGAATCAAT	170
25	(2) INFORMATION FOR SEQ ID :124:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 157 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :124:	
	AAGTAATGAT CATTCCCCAA AAATGTTCTG TTATCAACTG NNTTTATAAA	50
40	AAATCGATTG TGGGTAGAAG CAGAGAAAAG GCACTTAGTA AAGATACTAC	100
40	ATGANGAAAA ANNTCTGCCC TTTGAATTCT TANGAAACAT NNTNGNNGAA	150

	TCAATNT	157
	(2) INFORMATION FOR SEQ ID :125:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 169 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :125:	
15	CAACTTGAAA TACATTATGA TGTCTGATAT GATTAAATAT CATTGAGNAT	50
	CTTGCAAACA AAAAAAGCAA AAAATTAAAT CTCCATATCA ATCTTAAATT	100
20	CTTGGCATAT TTACTTCTGG TAAATATTAC TTCTGGTCCT TATTCTATAT	150
	GTGTTATTGA AATTGTGTT	169
	(2) INFORMATION FOR SEQ ID :126:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 90 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	. •	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :126:	
35	GTTTNGTTNN NNNNTGTTCC ACCTTTTGTT GAATTTTAGT TGTTAGGCTG	50
	AACCTCCGAG CAGTTTNAGG ACTTGCCTGA GTTTTTCTTC	90
40	(2) INFORMATION FOR SEQ ID :127:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 160 base pairs	

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :127:	
		F.O.
	TTTAGTTTAC TTCTGTTCCA CCTTTTATTG AAATATTAGT TGTTAGGCTG	50
10	AAAGCCTCCA GTTAAGAACT TGCTGAGTTT TTTTGTTCAG CAACTTGACA	100
	MANGECICCA GITANGANCI IGGIGAGITI IIIIGIZONO GIZIGIZONO	
	TTTACTATGC GCATTATATA NCTCAATTAT GTCTGTTTTT TATGCTAAGT	150
15	AGGAAAACCA	160
	(2) INFORMATION FOR SEQ ID :128:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 150 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(5) 10102001. 21	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :128:	
	GCCCACAACT TACATCCTCA TTATTGGCGC CTACAAACTC AACTACGAAC	50
30		
	ACACTCACAG TCGCATCATA ATCTTTTGAG GACTTCAAAC TTACTCGGCT	100
		150
	ACCGCTTTTT GATGACTTCT AGCAAGCCTC GCTAACCTCC CTTACCCCCC	130
35	(2) INFORMATION FOR SEQ ID :129:	
22	(2) 111014111011 1011 002 10 11011	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 182 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :129:	
	AGAGAGACAG ACACCATGGA GCCACAGGGG CAAGAGGNNG NTTTCCGAAG	50
5	CAGGGGANNG GCTATCACTC GGACGGACCN NNGCTCAACG AGTCCCACGA	100
	GAACACACCA GAAATTTGTC ATTGCACTCA ACCAAAATCG ATATCAGCAA	150
10	TGAAAAACCC AAAACAGTTA CGANGCTAAT CC	182
	(2) INFORMATION FOR SEQ ID :130:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 219 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	· •	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :130:	
	GGACCATTCT GATCATCCTC ACTGGACGCC ACAGGGGCAA GAGGGTGGTT	50
25		100
	TTCCTGAAGC AGCTGGCTAG TGGCTTATTA CTGTGACTGG ACCTCTGGTC	100
	TCAATCGAGT TCCTCTACGA AGAACACACC AGAAATTTGT CATTGCCACT	150
	TCAATCGAGT TCCTCTACGA AGAACACACC AGAAATTTGT CATTGCCACT	130
30	TCAACCAAAA TCGATATCAG CAATGTAAAA ATCCCAAAAC ATNTTACCGA	200
30	TOMACCAMAN TOGATATORS CANTISTANAN ATCCOMANC ATRITACOSA	200
	TGCTTACTTC AAGAAGAAG	219
	Idell'Active Americans	
	(2) INFORMATION FOR SEQ ID :131:	
35	(2)	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 181 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
40	(D) TOPODOGI. IIMedi	

(xi) SEQUENCE DESCRIPTION: SEQ ID :131: 50 AATAATTCAT CCACTTATGG AGGAGGAGGA GAATGTGGAA GAGGTAAAAA 100 GCTGGGCACA AGTTCATATG CCTATGAGTC AGTAAAGACT GAAGTAATGT 150 CCTATGTTGA GCTGGTTATT TTGATATATG ATAATAATTA TCTTTGTAGT 181 AGAACATCGT TAACGGAATC ACAGATATAT C 10 (2) INFORMATION FOR SEQ ID :132: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 188 base pairs (B) TYPE: nucleic acid 15 (C) STRANDEDNESS: double (D) TOPOLOGY: linear 20 (xi) SEQUENCE DESCRIPTION: SEQ ID :132: GACCAGCAGC TGTGGACATT ATGAGAAAGT GAAACCTGAG ATCCNCTGTT 50 GATTGAGAAA TGCAACACCT CAAAATGNGG GACAGCTCCT GATTACCAGG 100 25 TAGAAGATGN AAACAACTGG GGTGTCCATT CAGGAGGAAA CAATTGCAAG 150 188 CTAAGAACTG TTGAGAGTGA AGCTGCATTT TCTGNACC 30 (2) INFORMATION FOR SEQ ID :133: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 190 base pairs 35 (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 40

(xi) SEQUENCE DESCRIPTION: SEQ ID :133:

	GAGGTTGGGT CGTTGCATCC ATCATCAGGA GTTGACTTGT TCTGAGCAAC	50
	TGAACAGAAC ACACCGCGAT GCTCTCGACA CTCCGCTCCT GGACTTCAGT	100
5	CACGAGTGAG TTGATGGTGA CTTGACCTGA GAGATTTCAC AGAAGCTCTG	150
	TGACTTGGTT GTGGAAGAAA TCTGAACTGT TCAAGTTAAC	190
	(2) INFORMATION FOR SEQ ID :134:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 235 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :134:	
20	(XI) Dagosa Dagos	
20	ACATTACGAT CACTGATAGT TGGTGTGCGA CTGAAACCCA CATTNTGGTC	50
	AATCTCCTCG TAGAGCTTCT TCTTCACCTG AGGATTGGCA GCAGGAAGGC	- 100
25	CAGGGTCCAT TTAACTAAGA GGTGGTGATC TCCACGCCAG CCCCAAAGAT	-150
	GTCCCCTATA TGGTGAGAAT GNGTCATCTG AAAGCAGCTC TGAGTCTTGA	.200
	TCTGGGCCAG CATTGCCATT ATTGAGTTTA TCTAG	23
30		
	(2) INFORMATION FOR SEQ ID :135:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 147 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
70	(xi) SEQUENCE DESCRIPTION: SEQ ID :135:	

	GAGAAACAGT ACCATCCANG ACACGATGTG GTGGAGGTTG ACNCCGCTGT	50
	ACCCCAGAGG AGCNCCACCT GTCCAAGATG CAGCAGAACA CTACAAAATC	100
. 5	AACTATGTTT TTTAGCAGAT GCAGGACTAG ACCCCCACGC AGCTCTG	147
	(2) INFORMATION FOR SEQ ID :136:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 171 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :136:	
	GAAAAATGNG TTGANCCATT CATCCACAAA TTGACTTGCC TGAACAACCA	50
20	CCAAACAATA CACTAATGNT TCACACNTTT NCTTTTACTT GNACNTTAAG	100
	NTCCCANTGA GTCACGGTGA CTTACCCTAA ACATCTCAAN NGTNNTCTGA	150
25	CTNAGAATGC GGAGGAGATC T	171
	(2) INFORMATION FOR SEQ ID :137:	
	(i) SEQUENCE CHARACTERISTICS:	•
30	(A) LENGTH: 159 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :137:	
	ACATATATGT GGTAGGATAG AGAGATGGNN NNNGTGTATG ACATAGGTGT	50
40	TTCTCGTGTG ATGAGGGTTT ATGTGTTATG TGGGGTGAGT GAGCCCATTG	100
	TOTAL TATELLA ATTACONO LE ALGERIA LA ALGERIA LA	

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	TGTTGTGGTA ATATGTGAGG AGTATAGGCT GTGACTAGTA TGTTGAGTCT	150
	GTAAGTAGG	159
5	(2) INFORMATION FOR SEQ ID :138:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 179 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :138:	
	CCCACGACTT ACATCCTATN ACNCTTCGCC TAGCAAACTA AAACTACGAC	50
20	NCACTCACAA TCGCTCATAA TCTCTTNAGG ACTTCAAACT NTCTCTNTGA	100
	NCCTTTTGAT GACTTCTACA AGCCTCGCTA CCTCGCCTTA CCCCNTGTNC	150
	TNCGGGAGAA CTCTCTGTGC TGTACCAGT	: 179
25	(2) INFORMATION FOR SEQ ID :139:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 177 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :139:	
	GACCTGGGAC GTAAATGATG AGACGGGTAC TTTGGCGGAC ATGAAGGAAC	50
40	TGGCATATGG AACCTTGGCT GTGAAGCTGC AGACTATAAG ACAGCATGAG	100
70	ACGACAATTC TGCTACTGCA ATGATGACAT CGTTTCAGAC CACAAAAAGA	150

	AAGGCGATGA CCAGAGCCGC AAGGCNG	177
	(2) INFORMATION FOR SEQ ID :140:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 72 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :140:	
15	GTTTACAACA TTTACATCCT ATGAACTCAT GGATTATAAA ACATTTGTGA	50
	CTTATACTGT CTNTGTCAGT TA	72
20	(2) INFORMATION FOR SEQ ID :141:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 62 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :141:	
30	GTNGGCTGAA ATGAAANAAT AAAACCAAGA AACGAATTTA AGTATTNGTT	50
	TTAGTACGNA AA	62
35	(2) INFORMATION FOR SEQ ID :142:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 127 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

89

	(xi) SEQUENCE DESCRIPTION: SEQ ID :142:	
	ACCAGINNNT GATTGGTAAA TGGGAAATAT AATTGATTCT GATCACTCTT	50
5 .	GGTCAGCTTC TCTTTCTTTA TCTTTCTTTC TCCTTTTTTA AGAAAACGAG	100
	TTAAGTTTAA CAGTTTTGCA TTACAGG	127
10	(2) INFORMATION FOR SEQ ID :143:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 198 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :143:	
	AATATAAAAG ACAGCAGTTT CACATTTCAC ATATTTGAAA AACATTTCAA	50
	AACCCTCTAA TAAGTATTTA ATGAAAATAA ATTTATCGAA GAGAAACAAT	100
25		
	GACCACAAAA TTAATACTAC CAAATCATTA CTGAGACTTT TTGCATTACA	150
	ATATTTGGAG AGTAGGTGAA GAAAATATAG AACAGAACAT GNACATTT	198
30	(2) INFORMATION FOR SEQ ID :144:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 174 base pairs	
	(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :144:	

GTTTCTCTNT ACGTCATCCA CCTTGACATG ATGGGTCAGA AACAAATGGA

	AATCCAGAGN CAAGTCCTCC AGGGTTGCAC CAGGGNNTAC CTAAAGCTTG	100
	TTGCCTTTTC TTGTGCTGTT TATGCGTGTA GAGCACTCAA GAAAGTTCTG	150
5	AAACTGCTTT GTATCTGCTT TGNA	174
	(2) INFORMATION FOR SEQ ID :145:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :145:	
20	GAGAAATAGT ACTTTAAAAT AAAACTAACA TGGTTTGATC AGCTTGAAAT	50
20	AAGATTCATA AAATGTACCT TTTTTGATTG TTTTGTTCTN GAGTTTTCGA	100
	TTGAGANCAT TTGGTAAAGA TAAAGAGGTT TCCTGGGTGG CAAAAAATTA	150
25	TTTTGG	156
	(2) INFORMATION FOR SEQ ID :146:	
30	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 151 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :146:	
40	AAGATTCNNN NNTCCATTGA ATGTTACCTG TGCCAGAATT AGAAAAGGGG	50
40	GTTGGAAATT GGCTGTTTTG TTAAAATATA TCTTTTAGTG TGCTTTAAAG	100

TAGATAGTAT ACTITACATT TATAAAAAAA ATCAAATTTT GTTCTTTAAT 150 151 T (2) INFORMATION FOR SEQ ID :147: · 5 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 177 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 10 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :147: 15 50 CTTTATTTTT CTTATACAGA TTCAGAGAAG TAAAANNCAG TACCAAACTC CAGGTAANNT GGTTTGATCT GATCGATTTG GCTGCATACT TTCGGTACGT 100 20 150 ATAACATTCT AAACTTAAAA TAGAAATTTT TATATTACAA AACGAGGAAG .177 TAAAATTTTA AAAGTTAAAG TACTAGC 25 (2) INFORMATION FOR SEQ ID :148: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid 30 (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :148: 35 GATTCHNNNH TCCATTGAAT GTTACCTGTG CCAGAATTAG AAAAGGGGGT 50 100 TGGAAATTGG CTGTTTTGTT AAAATATATC TTTTAGTGTG CTTTAAAGTA 40 148 GATAGTATAC TTTACATTTA TAAAAAAAAT CAAATTTTGT TCTTTAAT

92

(2) INFORMATION FOR SEQ ID :149: (i) SEQUENCE CHA ACTERISTICS: (A) LENGTH: 204 base pairs 5 (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 10 (xi) SEQUENCE DESCRIPTION: SEQ ID :149: 50 AGATTCNNNN NTGGNATTGA ATGTTACCTG TGCCAGAATT AGAAAAGGGG GTTGGAAATT GGCTGTTTTG TTAAAATATA TCTTTTAGTG TGCTTTAAAG 100 15 TAGATAGTAT ACTTTACATT TATAAAAAA ATCAAATTTT GTTCTTTATT 150 TTGTGTGTGC CTGTGATGTT TTTCTAGAGT GAATTATAGT ATTGACGTGA 200 20 204 ATCC (2) INFORMATION FOR SEQ ID :150: 25 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 93 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 30 (xi) SEQUENCE DESCRIPTION: SEQ ID :150: AACATCGAGG TCGTAAACCC TATTGTTGAT ATGGATCTCT ATGAATAGGA 50 35 TTGCGCTGTT ATCTCTAGGG AACCTCACCG TTGGCAAGTT ATT 93 (2) INFORMATION FOR SEQ ID :151:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 151 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :151:	
	AATCGAGAGA AAAAATGATG ACACTGTAGC AATATCGTCG GANTCCACCT	50
10	ACTITGGGAT CAGCCTATCC ATCCGTGTCT TCCTATTTAA ATCGTCTATC	100
	CTCTATCCTT CCCCTGTCTT TTTNTGAAAA GGAAAAAAAC CAGGAAGGTG	150
15	т	151
	(2) INFORMATION FOR SEQ ID :152:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 109 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
25		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :152:	
	TCTGAGAGGA ATACTNNTAA GTGCAATGAA TATTGCAAAT TTTCCCCCCT	50
30	CTAAGTAATT CCCGATATTA GCAAANCANN NANATTAATG TCCCAGTGAA	100
	TGTAGCCTC	109
35	(2) INFORMATION FOR SEQ ID :153:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 136 base pairs(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :153:	
	AAAATTATTT TCACAGTCCC CCCCAACTCT CATTGCGTCG TTAAAGTCCC	50
5	TCCAATCCTT TTTTAGTTGT GAAAAAATAA GGGGCCTTTA AAGGAGGAGG	100
	AGGAAAAGGG GAAAAAAACC CATAATGGGC CTAAAA	136
10	(2) INFORMATION FOR SEQ ID :154:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 160 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :154:	
	CATCTTCATC ACCATCACAA TACTCATCAT CACCACCCTT CATNCACTAT	50
	CATCTTCTAT GACTGCAAAC TTCTTATCTT TCTCTTCATT ATAGAAAGTT	100
25	TCAAGATGAG TATACGCATC TATCATTCGA ATTGTGTCAT TAATTTGTAG	150
	GGCCTCATTG	160
30	(2) INFORMATION FOR SEQ ID :155:	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 191 base pairs	
	(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :155:	
	ACCAGTNNNN NNNGGTCAAA TAGGGAAATA TAATTCGATC TCTCGAATCA	50

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	ACTCTCTGGG TCAGCTTTCT NCTTNTCTTC TATCTTTNCT TNTCTCCTTT	100
	TTTTAAGAAA AACGAGTTAA GTCTTAACAG TTCTCGCATT ACAGGCTTGT	150
5	GACTTCATGC TTACTGTAAA GTGGAAGTTG AGATATTTTA A	191
	(2) INFORMATION FOR SEQ ID :156:	·
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 139 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :156:	
20	CAACTGAACG CTTTGGTCAG GCTGCTACAA TGGAAGGAAT TGNGGGCNAN	50
20	TTGGTGGAAC TCCTCCTGCN NTCAACCGTG CAGCTCCTGG AGCTGAATTT	100
	GCCCCAAACA AACGTCGCCG ATACTAATAA GTTGCAGTG	139
25	(2) INFORMATION FOR SEQ ID :157:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 172 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :157:	
رر	(XI) DEGORACE PROCESSION. OBS ID .131.	
	GGTACAGAGC ACTCTGTACC AACACAGA ATTTACTGTT CTGCAAATGA	50
40	CCAATACTAA AAATTTATAA AGATGTGCAC AATTNNNNGC AGGCAATCTT	100
40	TCTTTTGTTT ACAAGATACA ACATTTAACA GTTATTAAAT GTAATCCTGA	150

	AGCACCCGCA AATTTACCTT TG	172
	(2) INFORMATION FOR SEQ ID :158:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 93 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :158:	
15	GGGTGGCTGT TNNGTATATC TCGTTAGTAA ATGTACATGC TCTTCAGGTT	50
	CTAGGGCTCC TGTTAGGGGA GGGAGAAATG TTGGAAGNGG GGG	93
20	(2) INFORMATION FOR SEQ ID :159:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 102 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :159:	
	GNATTTTTT ATTGATATAT CATAGTTGTA CAAACATTTG GGAGTNCANG	50
	TNGATACTTT GATACTATCG TGTNNNNNGG ATAATCACCA AATTGGATTC	100
35	CA	102
	(2) INFORMATION FOR SEQ ID :160:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 205 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :160:	
	GCTTTTNNNN NNNNNNNNNN AGGTTTATAT TTACAATAAT TATCTTCCTA	50
	TAGAAGCAAT AANNCNAGTA TTCTCCAGTA ACAACACANN NNNATATTCT	100
10	ACTCATCAGA GTTGGGAAAA ATAGGAATAA AGCAGATTCC ATACAGAAAT	150
	ACCGTACTCT GCATATGTAC AAATAAATTC AATATATTAA ATCATTTTGA	200
15	GCGGA	205
	(2) INFORMATION FOR SEQ ID :161:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 150 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :161:	
30	AACTTTTTTA ATGGGTCTCA AAATCTCTGA GACAAAATTA CTNNGNNNAA	50
	AGTTGTTTTC CATATAAAA ANNNNNNTGA TTTTTAAAAA ACTAANNAAC	100
	TTAAAAACNT GCCACACGCA AAAAAAGAAA CCAAAAGTGG GNCACCAAAA	150
35	(2) INFORMATION FOR SEQ ID :162:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 77 base pairs	
40	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :162:	
• _	TATTCAAAAG AAAAACATGG GTAAAAATGA TAGTGTTAAA TCTTGGCTCT	50
· 5	GTGTACATAG ATAGATACCT GTTACAG	77
	(2) INFORMATION FOR SEQ ID :163:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 182 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :163:	
20	GAAAATTATT TTCACATCCC CCCCAACTTC TTGCTCTTAA TCCTCATCTT	50
	TTAGTTGAAG AATAAGGCTT AAGAGAGAGA AAGGAAAAAC CATAATGGCT	100
	AACTTAGCAG CACAACACGG TTCTTTTATC AAGGCGTNAT CATCATTTCT	150
25	CAAACTGACA TGCTACAGAA ATGTCTTCCA AA	182
	(2) INFORMATION FOR SEQ ID :164:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 182 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
3 5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :164:	
40	GAGGGAGCAA AGAGAGCCAT AAAGGCTCGT GCTGGGAAAG AAAGCTGTTA	50
		100





	•	
	AAATTGTCAC CCGCCAGCTT TCTGGCCAGT AAGCAGAATG CCAGGTTGCT	150
	CAGATTCACA GACATTTGCA AAACAGAAGA TG	182
5	(2) INFORMATION FOR SEQ ID :165:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 119 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) TOPOLOGI: Timeat	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :165:	
	GTATCTCCCT CTACATCCCT CCCGAAATAC TAGGAATACT TATTCTATAT	50
20	GAGACATATA TACCACCCAA GTTTTAACAC CATATCCCAT CGGCTGTTAG	100
20	TGTATATAAA AAGAAATAA	119
	(2) INFORMATION FOR SEQ ID :166:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 193 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :166:	
35	GTACAAAGCC ACTCATCCTC GTGTGCCTAT CACGTTTTCC AAACACATAG	50
	GATCCCATCT CAGGAGCAGG ACCAGTGTTT AGCTAGATTA AACTTCGCTG	100
40	GTGATCTTGT TGATGCATAT AAAGTAATCT GGCATATATG GTTAAATTCA	150

AGATGTTATG GCAGAAGTGA CTTGTTTTGC TCAACAAGCA TTG

	(2) INFORMATION FOR SEQ ID :167:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 185 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :167:	
	GTTCTGACTN AGAACTGAGC ACATAGCATT GACGCGGTAC CCTTGGAGAG	50
15	GGTGTGCTAG GAGGAGTGCT TGGCGAATTT GGACACGTAC TAATGTCTCT	100
	GAGCCAGTCT GAATCTCTGT GAAGATGCCC CAGTGGAGGT GGCTGAAGAT	150
•	TAAATGGACA GTTTATAAAG TGTTCTGG GCCGA	185
20	(2) INFORMATION FOR SEQ ID :168:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 163 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :168:	
	GGACAACACA GCACCCATCC ACTACCCATT CAGAATTTAT ATAGAATATG	50
35	TACCCATGAT TATCTAGGTG AATCAATGCA ACAGTAGCTC TGATGTCCAG	100
	ATTTCCTAGT CTATTATTTT GTGTACAGAT CCTCTAACCA CTTAGAAATA	150
	ATTTTTAAAA ATA	163
40	(2) INFORMATION FOR SEQ ID :169:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 202 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :169:	
10	AGACAAATTC NNNNTNNNNN NTGCCTGATA ATTTCAGATG CCACCGTATA	50
	GCAAAGGGTG AACATGTTTT CAACCCTTTA ACTTTTTACG GTGTTTGAAG	100
15	ACCAGCTACT CCTTAATATT TATCAATGGA TTAAGAAGTT TAAGATTTTG	150
	CAGATTTACA ATTTGGGTTT TTGTCTGGAG TTGCTTCGGT TTGAAGCCCC	200
20	CT	202
20	(2) INFORMATION FOR SEQ ID :170:	
	(i) SEQUENCE CHARACTERISTICS:	
0.5	(A) LENGTH: 168 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :170:	
35	TCAGGGAACC AAAAAACTGG CTTGCTTGGC ACCCAGGGAC AGTAGCTGTT	50
	TGGCTCTCCA CCCAATTAAA AAAACAAATC CCTGCCCTTT CCCCCACCCC	100
	ACTAGCTAAG CAAGAGCAGA GCTCTGATGA AGAGCCAGTG CCGGGTGCCT	150
40	GGTGCCCAGG GCTGTAAA	168
	(2) INFORMATION FOR SEQ ID :171:	

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGIN: 144 Dase Parts	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :171:	
10		
	AGAAGTCAAC TAAAGCTTCA ATGCATCAAT TTATAANGCC TCANAGATCA	50
	GCAATTTATG ACACTTACAT TTACAGTCGA CCTTTACTAA CCAGGCAAAC	100
15	TTCCCGAAAT GATCAGGACT GATTCATCTC CTGAAATTNN CNGT	144
	(2) INFORMATION FOR SEQ ID :172:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 91 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	• •	
25		
	(with groupings programmer, and to 150	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :172:	
	ACCCACAGNN NNNACCTAGA GGCCCAGCGC CCAGAGAGGC ACGTAGAAAT	5.0
30	ACCCACAGNN NNNACCIAGA GGCCCAGCGC CCAGAGAGGC ACGTAGAAAT	. 50
50	GGGGACAGCA CGTTTATAGA CCACCAGAAA TTGAAGAGGA A	91
	GGGGACAGCA CGITTATAGA CCACCAGAAA TIGAAGAGGA A	91
	(2) INFORMATION FOR SEQ ID :173:	
	(2) Information for one in the state of the	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 204 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	, ,	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :173:	
	GATTTTTAA TGGGTNGCCT CTTTTAGCTT GGAATATTAC GTTTACTTTA	50
· 5	ATCCAAGTCT AGGCCTTTTA AAGGGTCCTT AAAATTAAAG TTCAGAATGT	100
	GAATCCCTTT GACATCTATT ACAGGTTATA GGACCTTTTT GGTGTGATTA	150
10	CGGTTTTCAA TACGATTGTA TAAATGAAGT TAACTTGGCA GAAGTTAAAA	200
10	TGGA	204
	(2) INFORMATION FOR SEQ ID :174:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 241 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :174:	
25	GTAAATTTCA CTACATCTTT TNNTNTGACT TTCATGCATT TCTCATACAT	50
	TNNTNNCNGA TGCTTGACTT TATTGCTTCC TAGCAATAAT CTGCATTTAA	100
30	ACGAAAGGCG GTTCAATTCA TCAACTTGAA ATGACTATTT ATTTTTNAGG	150
30	ATTTTTTAGG GGAAGAGTAC CCATTTCGTT TATAAAAACA GATGACAAAT	200
	TTCTTAAAGA AACAGAAGCA CAATACTTTC GAAATACAAC G	241
35	(2) INFORMATION FOR SEQ ID :175:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 211 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :175:	
_	GGTGGGCTCN NNNANNANNG TTCTACACTG TGGTATAAAC TTGTCGTGGT	50
5	TCTCGTGATA GAAAACAGAC ACTGACCTTG GGTATAGTGG GCCTATAAAT	100
	AACAAACCCT TGGGTACTCC TGAATAGGGG CAGGGCCCCC TGGGCCTCCC	150
10	TTACAGGTTT CTTCAGGGAA ATGGTCCCTG GGATAATTCT TTAGGGCCCT	200
	TTGGCCCTTT T	211
15	(2) INFORMATION FOR SEQ ID :176:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 252 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :176:	
25	AAAATAAGAA TAAACATCCA TAATAGTNAT AGATANATCC NTTTATTTAG	50
	NACATCAGCA ACGACTGCTT CACACCAAAT CCCTTCCTCT GNGAATGATN	100
30	TATATAACTC TAGTACTGCT TTCCATGAAG AACCTTGCAA ATTGATTGAA	150
	AGTCCAGGAT NNCTCGCTAA TCCTCCACCA TAAGATTTCT GACCTATGAT	200
35	AACTCCAAGG TGGCAAACAG AGAAATCAAC TTCCTTATAA ANAAATCCNA	250
	AT	252

(2) INFORMATION FOR SEQ ID :177:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 279 base pairs(B) TYPE: nucleic acid

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(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

· 5	(xi) SEQUENCE DESCRIPTION: SEQ ID :177:	
	GCGGGCGACT TTCCATCCCT CGAACCAAGG CATGTTAGCA CTTGNCTCCA	50
10	GCATGTTGTC ACCATTCCAA CCAGAAATAG CACAAATGCT ACTGCGCGAG	100
	TTGCAGCCAA TCTTCTCAAA GCAAACCGAC TTCCTAACAA CTNTCTACAT	150
	CTGGCTCGCT GCAGGCGACT CAATGAAATC CATCTTTAAC ACCACAATCA	200
15	TTGTTTNACA CCCAGTGTGC AAGCCAGGAG GGCATGTTCT GAGTCTNTCC	250
	ATCTGAAGAT ACCAGCTTCA AATACTAAT	279
20	(2) INFORMATION FOR SEQ ID :178:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 157 base pairs	
	(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		,,
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :178:	
	TATGCCCTGA AATGAAACCT CTAAGTTTGA CAAAATACCC ACAAAAACAG	50
25	ACCTTCCTNG TTAACACTTT ATAAGAAGGT GTGACATTTG GTGGGTGGTC	100
35	GTTCTCAATT TATAAAANAA TAAATGACTT TAAAGGAGAA ATAAATTTAT	150
	GTCAGGA	157
40	(2) INFORMATION FOR SEO ID :179:	

(i) SEQUENCE CHARACTERISTICS:

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	(A) LENGTH: 39 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :179:	
10	GATAATGCAA CTTTTGACAG GAAAGCGCGA TTTTACTAT	39
10	GATANIGEAN CITITONENS GARAGEGEGA TITTACIAI	39
	(2) INFORMATION FOR SEQ ID :180:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 157 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :180:	
	GCAAACTCAA ACTACGGACG CACTCACAAT CGCTCATAAT CCTCTCTAAG	50
25		
	GACTTAAACT CTACTACACT AATACTTTTT GATGACTTCT AACAAGCCTC	100
	COTTA DOCTOR COTTA COCCOR DOTTA DE COCCA DA COCA DA COCCA DA COCCA	
	GCTAACCTCC CTTACCCCCC ACTATTAACA CGGGAGAACT CTCTGTCTAG	150
30	TACCACA	157
		20,
	(2) INFORMATION FOR SEQ ID :181:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 195 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID :181:

	CCATCCAGGC CAAATAAGCN CCGGCTATGC CCNTGTATTG GATTGCCACA	50
	CGNCTCACAT TGCATGCAAT TTGCTGAGCT GAAGGAAAAG ATTGATCNCC	100
5	ATTCTGGTAA AAACTGGAAG ATGACCCTAA ATTTTGAAGT TGATGATGTG	150
	CCATGTGATA TGGTTCTGAC AAACCCATGT GCGTTGAGAG CTTTT	195
10	(2) INFORMATION FOR SEQ ID :182:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 146 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :182:	
	CATGGTCTTA ACCAGTGTCA GATGGAATCA GTGGATAAAT CCCCAGGTTT	50
	GTTTGTCCTT CAAATGGGAC AATTTGAGGA ATGCTTTAGG CAGAGGACTC	100
25	AGATGACAGA GCGCCAACCA CCCACAATAG AAACCTGCTC ATCACA	146
	(2) INFORMATION FOR SEQ ID :183:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :183:	
40	TAGAGGAATA GGGNNNGNGA CGCCCCNAGT TGTAGGGACG GACGGAGGAC	50
••	(2) INFORMATION FOR SEQ ID :184:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 248 base pairs(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :184:	
10	ACGNTTACGG TCACTGATAG TTGATGTGCN NCTGAAACCC ACATCCGATC	50
	AATCTCCTCA TAGAGCTTCT TCTTCACCTG AGGATTGCGC AACAGGAAGG	100
15	CCAGGATCCA TTTACCACAG AGGCGGGATC TCCACGCCAA CCCCAAAGAT	150
	GTCCCCTATG ACGACGAGAA TGTGATTATC TGAAAGCAAC TTGATCTTGA	200
20	TCTGGGCCAG CATGCCTCAT CTGATTCATC TCGCTTCCAT CAATGNGT	248
20	(2) INFORMATION FOR SEQ ID :185:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 113 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :185:	
	AATGATGAGT AAAAGATTCA ACAACTCACA GCCCTGGGGG CACTCAGGCT	50
35	ACTGCTAAGG CCTGAGAGTT TTGCAAAAAT GCGCAGAGAA ACACCCTTTG	100
	AACGTGGCTT TCT	113
	(2) INFORMATION FOR SEQ ID :186:	
40	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 148 base pairs

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
J		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :186:	
10	GGGCCCCTG ATCAATTCTT TGGATGCTTT TCAAATTTCC CAGGATCCCG	50
10	ATGTCGTCAT ACACTCCGAA CATGACCCTT TTTTCTTCCA ACGATCAACC	100
	ACTNCGNGGG ACGGGAGAGT GAGCCTTATA CCGATCAATC TGCACACC	148
• •	(A) THRODYNATON DOD ODG ID . 197.	
15	(2) INFORMATION FOR SEQ ID :187:	
	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 248 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :187:	
	TCCTTACTGT AAGAGCCATT TAAACGATTA AAATCCCACT NGCCATACCG	50
20	TAAGATGATA GGACCAACCA TACCTACCGA TCAAAAATTT ATCAATCCAA	100
30	GCCAACTACA CTCCCACTGC TAAAAAGATG AAAGGACCAA TCAAAGATTT	150
	GOCAACTACA CICCOMCIGO IMMUNICITO IMMONICO.	
	AATTAAACTA AAGGGAAAGA ATCAGAGACA GAGAATGAAG AAAGAAATTC	200
35	TAAGTTGCGA CGGACAAACC AGAACAGACA ATGAAGCCTT TCAACTGC	248
	(2) INDODUMETON FOR CEO ID 4189.	
	(2) INFORMATION FOR SEQ ID :188:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 146 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :188:	
	TATGAAGAAG TGCAGCACTG GCCAACACCA GGGTTTACTG AATCATTTCA	. 50
••	GTTTAATACA TAAGTGTCCA ATAATAATGT CAACCCTCCC TCGCCACAGC	100
10	CAATAATTTG TCCTCACTGA GTTGGCAACA AGTGACTGCT GTGACT	146
	(2) INFORMATION FOR SEQ ID :189:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 81 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :189:	
25	ATTTACCACA AGGGACGATT TCCACACCAA CCCCAAAAAT GTCCCCTATG	50
	ACGACGAAAT GTGTATTTGA AACAGCTCTG A	81
	(2) INFORMATION FOR SEQ ID :190:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 136 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :190:	
40	(VI) PREGREE PROCESTITION. PRE IN TELE	
40	AND THE RESERVE THE PROPERTY OF THE PROPERTY O	F.0

٠.	GAGCAAGAAT TGAAGATGCA CAAACTTCGT TCTGAATTTG TGAGCTTCCT	100
	GGATCAACTG AAGAACTTCT GAGGATTGAC CTGTCA	136
5	(2) INFORMATION FOR SEQ ID :191:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 152 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :191:	
	AGGATTTAAG ATGGGGACAG ACTGGTGAAA ATGCGGCTGA CTGGAAGGAA	50
20	ATGGGGCATA CGAGTAATAT GTACATATCA AACAATCAAT TGCCTCCTGA	100
20	AATCAAAAA TCAAATGGTG AAATGGAGCC TCCTTGATAG TTTAGGCCAA	150
	CA	152
25	(2) INFORMATION FOR SEQ ID :192:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 65 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :192:	
	TAAGCGAGGN NGTCTTTGAT TGCGTAGTAA GGTAAAGACG ATTTTATAGA	50
40	ATNAAGGTGA TTCCT	65
40	(2) INFORMATION FOR SEO ID :193:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 2 9 base pairs(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	• · · · · · · · · · · · · · · · · · · ·	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :193:	
10	AGGACCCAAA CTACCTTATT GCATTTGAAG TTTTACTTAT NCTATTATAA	50
	TCTAAGAGCC CACCCAACAA GGCACTACAC ATAGATGCTC ACACTCTATA	100
15	GGCTGCCTGA TCCTGGACCA CCTGGGGCCC TGATTATGAT CTCCACGGGG	150
	CTGTCAATGA CTAGGGAAAG CTTTTTAAGA CCCAGCGATC ATGCAATGGC	200
20	TCAACCATGG CGAATCAAAG TTAGCATAAT GTCCCAGCAA ACAATGTTA	249
20	(2) INFORMATION FOR SEQ ID :194:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 194 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :194:	
	GGAAAGGGTG CCTCATCCCA GCAACCTATC CTTGTGGGNG ATGATCACTG	50
35	TGCTGCTTGC NNCTCATGGC AGAGCATTCA TGCCACGATT TAGGTGAATC	100
	GCTGCATATG TGACTGTCAT GAGATCCTAC TAGATGATCC TGACTAGAAT	150
40	GATAATTAAA AGTATTTACT TCGAAGCACC ATTTGAATGN TCAT	194
	(2) INFORMATION FOR SEQ ID :195:	

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 121 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :195:	
10	GTGATTTTAG TTTAAGGATA AGAAGCCACT ATATCAACGT CGGGGGGGTA	50
	TTTAAGTCAC ACACATAGTT AACAACNCNC GTNGCGTGCA ATAAATACCA	100
15	CATCCTTINA TATGNNCNGN A	121
	(2) INFORMATION FOR SEQ ID :196:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 175 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :196:	
30	GGGCTTCNNN NNNNNNCATG TGCACTTAGA ACCGTTACTA ACCGAAACAC	50
	CATTTGCTTG TCAACAATGT ACCCTTGACA GCAGGGAGAA ACTTCTTTAT	100
	AGTCTCTGCT TCAGACAAGA TTTACNGCTT TCTCCAAGGC CAGAGGCAAA	150
35	TTGTGACCAC AAGTCTTGTT TCTTG	175
	(2) INFORMATION FOR SEQ ID :197:	
40	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 273 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(C) SIRVINDEDIAESS: MONDIE	

(D) TOPOLOGY: linear

· 5	(xi) SEQUENCE DESCRIPTION: SEQ ID :197:	
	ACTGGCAACT TCTATGTACC TGCAGAACCC AAATTGACAT TTGTCATCAG	50
	AATCAGAGGT ATCAATGAAA TGAGCCCAAA GGTTCGAAAG CTCGCAACTT	100
10	CTTCACCTTC ATCAAATCTT CAACGACCTT CGCAACTCAA CAAGCTTCTT	150
	ACAGTGAGGA TTGCAGAGCC TATATAGCTG ATACCCCAAT CTGAATCATA	200
15	AATGACTAAT CTACAAGCNT GTTATGCAAA ATAAATAAGA AACGACTTGC	250
	TTACAGATGC NTTTTAATTG TGG	273
20	(2) INFORMATION FOR SEQ ID :198:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 56 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :198:	
30	GATTCCCCAA TAAGCAGACA CCTTGAACCA GCCTGGGGTG AGCGAAAGAT	50
	GNTATA	56
35	(2) INFORMATION FOR SEQ ID :199:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 132 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	10. managan 11. ma	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :199:	
_	GGACGCTGNN NNNNNATCC TGCAATGCAC AGCACAGACC CCACCACAGG	50
5	GGTTTTATCC AGCCCAAATG TCAACAGTGT CAAGTTTAAG CAACTCTTAC	100
	CGAGTGGGAC TCAATTCCCN AGTTGTATGG AA	132
10	(2) INFORMATION FOR SEQ ID :200:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 284 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•	•	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :200:	
	AAACTTTTTN GCACTTACAC AGACGAGACT TCACTGCNTG AGGATCATAC	50
	GACATTTCAA TCGNACACAA ANTTAAAAAA TAAAACAAAT TTTAAAAAAC	100
25		
	CATNTTGAAT TTCCTTAAAA TTATTCCAAT ACTTTCCAAC TTAAAATTCA	150
	GAACAAATCC TCCTAGAGAC TATCAATACC AATATCTTCA CATTGCTCAG	200
30	CTGNTACATA CGNCCCACCA GTTCACAACT AATGACACAA CACTACATGN	250
	TCAAATCTTA TCTNNNATAG CACAGTAACA AAGT	284
	(2) TUPODYARION FOR CRO ID (201)	
35	(2) INFORMATION FOR SEQ ID :201:	
JJ	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 106 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

. •	(xi) SEQUENCE DESCRIPTION: SEQ ID :201:	
	CCTGACACCA ATTTCGCCCA CATGTATGCG GGAAGAGGCC TGAGACTAGA	50
5	AGTCGTTGCC CTGTCCATCT CCCGGCCACA GGCTTCATTC CCAGATTTNT	100
	CTTGNT	106
10	(2) INFORMATION FOR SEQ ID :202:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 270 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :202:	
20	(X1) SEQUENCE DESCRIPTION: SEQ 1D .202.	
20	CTTTGGAAAA CAAACATTTN TTATTACTGA AATAGCAAAA ATCATTCTAC	50
	ACTCCTCCTA AGCATGTTCA ATTAGCATAC ATTCCAACAA TGCATGAAAA	100
		150
25	AATTNCTAGC CAGAGGCATT TAAGTGATTT CTTCCTAAGT GTTTGCTAAT	150
	TCAATGCCAA GAACTATGAT GTTTATCNTT CTGATGGACA AATCAAGAAA	200
	CAAAACAGAT ATAATACCAA GGGTAAAGCT GATATGACCC ACAACATTGT	250
30		
	CATTACTCTA ACTGTTAATC	270
	(2) INFORMATION FOR SEQ ID :203:	
35	(i) SEQUENCE CHARACTERISTICS:	
-	(A) LENGTH: 173 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	٠
	(D) TOPOLOGY: linear	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :203:	
	AACTAAGGCA CATTGCCCTT TTTGACCTTT CTNNNGNACT ATTGAAATCA	5(
5	AGCTTATTGA TTAGGTGATA TTTTTATAAC AATTGAAAGG GCAATATCAA	100
	ATAATGACAT ATGAGAATTT TTTATTACAT ATTAAAACTG ATTTTTACTT	150
	TACAAAANNG NAATTTGCAA TTA	17:
10	(2) INFORMATION FOR SEQ ID :204:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 164 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :204:	
	CTGCTTCACC ATCCTGGCGT CTACCAGCCT GGTGNGGCTG GGTACTGTGN	50
25	ATCGTCTTCC TCAACAAATG CGAGACCTGC CAACCTGCAC TACACCACAT	100
	CCGCNCAAGA AGAAGAACCT GCTGCTTCAT ACAACACGGG GAGGCCCTGT	150
20	CATTAACATT ANTT	164
30	(2) INFORMATION FOR SEQ ID :205:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 99 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
4 0		

(xi) SEQUENCE DESCRIPTION: SEQ ID :205:

	. •	GACCGCCCAN NNNCATCCAA AACTTCTAGG CACAATCTAT ACTGCTGCTG	50
		AAGAAATTGA AGCAGTTGGG GGAAAGGCCT TGCCATTGAN TTTTGATNT	99
5		(2) INFORMATION FOR SEQ ID :206:	
	1	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs	
		(B) TYPE: nucleic acid	
10		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
15		(xi) SEQUENCE DESCRIPTION: SEQ ID :206:	
		GTACCTTGGG NNNNNNNNG GGAATGAGGT TCTACCACTC TGGAAAATTC	50
20		ATGCCTGTCA NTNTAANTNC AGGTGCCAGT TNNCNNTAGG TCGCCAAAGT	100
		TGGGGTTAGN TGTTCNAA	118
		(2) INFORMATION FOR SEQ ID :207:	
25		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 170 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
30		(D) TOPOLOGY: linear	
		(xi) SEQUENCE DESCRIPTION: SEQ ID :207:	
35		CACACTANCG ACCAACACTT AAAAGNCTNC TCACACAAGN ATCTTTTTAA	50
		TAAAAATACC TCTTTCNTAA CTCCACTTTA ACTCCCTAAA ACCCATGTCG	100
40		AAGCCCCCAT CCTGGTCAAT AGTACTTGCC CAGTACTTTT AAAACTAGGC	150
		GCTATGCATA ATACCCTCAC	170

	(2) INFORMATION FOR SEQ ID :208:	
· 5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 129 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :208:	
	TTCAATGAAA TGCTTGTATA CAATGATATA ACAAAGAAAC CCTAAGACAA	50
15	CGAGAACTTC AACTAAGTGC ACTCATGCAG AATCTCTGCG GGGAGAATTT	100
	TTTCTCGGGG AAGTAACCCT GCCTTTGAA	129
20	(2) INFORMATION FOR SEQ ID :209: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 190 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :209:	
30	CTTGGCGTCA TTTTCTGTAC TTCTGACAGT GCCCTCAGAG TCTGCAGGTG	50
	GATCCTTTTT TGCATGGCAT TAATTATATG AGCAGCCTCC TTCTGACAAT	100
35	CCAAATTTTG GCTCCAGAGT CATTTCTGAA NNTCTACACT TANGGNCTTN	150
	AGCNTGCTCA TTCAAGGTNA AGGGGAGTTT TNAAAAATAT	190
40	(2) INFORMATION FOR SEQ ID :210:	
_	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 129 base pairs	

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(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :210:	
	TCATTGAGTC ATCCTTTTTG CCTGCTGCTG TAAGGTTTTT TTTCTTCTAG	50
10		
	TAACTGTATG ATCCAGAGCG ACCCAGCAAG GACTCAATCG ATCACCAACT	100
	GATGCAGAAC TGTTTCATAT CTAGAAATG	129
15	(2) INFORMATION FOR SEQ ID :211:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 152 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(with appropriately and the con-	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :211:	
	CTGTAAGGTT TTCTTTCTTC TAAGTAACTG TATGATCCAG AGCGACCCAG	50
	CIGIAGGII IICIIICIIC IAAGIAACIG IAIGAICCAG AGCGACCCAG	50
	CAAGGAATCA TATCGATCAC CAGCTGATGT AGAACTGGTT TCANATCTAG	100
30	Outside the second of the seco	100
	AAATGGAANC NNNGNGTTTN TTCCTTAATG GACCCCCCN GGGGCNGAAT	150
		230
	GG	152
35	(2) INFORMATION FOR SEQ ID :212:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 186 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :212:	
	CTTAACCCTT TGGAAGGNTT GACTGTGTGA CCCGCAGCAA ATAATTCATG	50
5	TCGAAAGATG AAAACAACTA AGTTCATAAC CCCCTGCCCG CCATTGACCT	100
	CCCTTTNAAA ANCGAGACCA AGACTCCATC ACTGGTTTCG AATTTACATC	150
10	NAACTGCTAA GATTGATACA TTNCAAGTCT GCAAAT	186
	(2) INFORMATION FOR SEQ ID :213:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 152 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :213:	
	CTTARATGCC TGTTGTGATA TCTTCTTTAR ACCTGGAGAG ATTGAATCAR	50
25	CCTTTCTCTA AAATTCCTTT CCTTTGCCTC CTCCTCTAAC TTTTCCTCCT	100
	TTCNCGCTTT TCCTCAGGCT TTGNTTTTCC TCATGCTTTG CTTCACTCTA	150
30	тт	152
	(2) INFORMATION FOR SEQ ID :214:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 290 base pairs	
J -	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID :214:

.•	TCTTCAGGAG AAGGGGCACC ACTGCTTTAA AAAACAATAC TCCNTTATAG	50
	ACTTGAACAT TTGCAGACAT TATGATCTTG CTTCCAACTC CCACCGTATG	100
5	TCCAGCAAAC TCTCGCATGT GGCCACTAGG AGGAATGCGC AAGAATGTTC	150
	ATATTACATA TTTATAACAT TAATAACTGG AAAAAGTGAA ATGCATGTCT	200
	GTTACAGGAA AATAGGCGAA TAATCAGATA TATATATCTA NNNCCGGGAT	250
10	ATTATTCAAT AGTGGAAATG ATGACTACAG CTATACCTCA	290
	(2) INFORMATION FOR SEQ ID :215:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 273 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	·
	(xi) SEQUENCE DESCRIPTION: SEQ ID :215:	
25	GTTTCTTCCA GTACATCCAA GTTTAAAATT ATTAGCGAAA TGGTCCATGT	50
	TTTTTCAATT ACTGCTGACA CGATTCTAAG CTAAGTGAAG GGGAAGATCT	100
30	TTTTTCAATT ACTGCTGACA CGATTCTAAG CTAAGTGAAG GGGAAGATCT GAGAGCATGC TGTTTGGACT GTTGATGCAT ATTCATGATG TAACAGGTCC	100
30		
30	GAGAGCATGC TGTTTGGACT GTTGATGCAT ATTCATGATG TAACAGGTCC	150
30 35	GAGAGCATGC TGTTTGGACT GTTGATGCAT ATTCATGATG TAACAGGTCC TGGGCCTCAC TTTACCCCAT TCGTAAAATG GGGATAATGT CACCTGCCTC	150 200
	GAGAGCATGC TGTTTGGACT GTTGATGCAT ATTCATGATG TAACAGGTCC TGGGCCTCAC TTTACCCCAT TCGTAAAATG GGGATAATGT CACCTGCCTC TTACCTACCT CAGAGGGATT TGCGAAGCAA ACTGTTAATC TTCGAAAACG	150 200 250
35	GAGAGCATGC TGTTTGGACT GTTGATGCAT ATTCATGATG TAACAGGTCC TGGGCCTCAC TTTACCCCAT TCGTAAAATG GGGATAATGT CACCTGCCTC TTACCTACCT CAGAGGGATT TGCGAAGCAA ACTGTTAATC TTCGAAAACG ACCATTTACT TTTAGGATAT CAA (2) INFORMATION FOR SEQ ID :216: (i) SEQUENCE CHARACTERISTICS:	150 200 250
	GAGAGCATGC TGTTTGGACT GTTGATGCAT ATTCATGATG TAACAGGTCC TGGGCCTCAC TTTACCCCAT TCGTAAAATG GGGATAATGT CACCTGCCTC TTACCTACCT CAGAGGGATT TGCGAAGCAA ACTGTTAATC TTCGAAAACG ACCATTTACT TTTAGGATAT CAA (2) INFORMATION FOR SEQ ID :216:	150 200 250





(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :216:	
	ATCTACGGCT AGGGAGAAC AATGTTCCTA CATATTATGG GTAGTGAGAA	. 50
	CATTATCTGT ATAACAGGGA ACTGTGATTA TTTAAAATTA TGCAGAACTT	100
10	ATTTCATCTG TGCTTTAG	118
	(2) INFORMATION FOR SEQ ID :217:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 197 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :217:	
25	GAGGCTGGTG GCGAGGGAGT TGTGGAGGAT AACAAGAAGA AAACAAGTCT	50
	ATCACTAATG ACTTATTTTA CTTAGTTTCC ATTCACGAAA CCCTTTTAAA	100
	TACAAGGCAA CATTTTCACA GCTGAAAAAT TACAACTAAA NGNNNTGATT	150
30	INCARGOCAL CATITICACA GOTGAAAAAT IACAACTAAA NORMATGATI	150
	TACCACCAAA AGCAATAGAT GTAGTTATGT ATAATCTATA GATAATA	197
	(2) INFORMATION FOR SEQ ID :218:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 177 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

124

	(xi) SEQUENCE DESCRIPTION: SEQ ID :218:	
	CTCGCGAGCA CTCGTCCGAG AGGTCCCATA CNNNNNNCC CAAGCCCCTC	50
· 5	AAGGGCCTTT GCCAATCING TCATTTTATG CCAAGTCCTC TAAAACGCAC	100
	TCAGGGGTAT CTACATCGCA CTTGTACAGA ATATCAAGAT CTTATCCTCC	150
	TATTTTAGGC TNCNAGGTCA AAATAAA	177
10	(2) INFORMATION FOR SEQ ID :219:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 118 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	A CONTRACT DESCRIPTION, SEC. ID .219.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :219:	
	GAAATGAAAA AGAGAGCATT ATTGGAAGAA TGAAAAATAC ATCTCAGAAA	50
25	GAAACCTANT AGTTCAACAA ATTAAAAGAA AGAAAGAAAA AAAGCAAAAG	100
	TNGGTNTCAG GGCTGGAC	118
	(2) INFORMATION FOR SEQ ID :220:	·
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 233 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :220:	
40	(UT) DEFORMED PRODUCTION AND TO LEGIS	

GAGAGCCCAG CACGTCATCC CCTGATCTGA GTCTACTGAA CACCTGTTTT

	ATGGACTACA CTGTCTTTTC CTTTGAATCC CCACTTCTCC TGGAACTGTA	100
	CTTGGACCAC CAGGAACATC GTAAGACACA ACCCAATACA CTCACCGCAT	150
5	TCAGACAACT GTCCAGACAC TGCCCTGACA CCACAGGGNC CCCTTTACAN	200
	NGGTTGGNGG AAATATNNTT TAATCTCAGG CCA	233
	(2) INFORMATION FOR SEQ ID :221:	
10	CONTRACT CUADACTERISTICS:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 235 base pairs	
	(A) DENGIH: 235 Dase parts (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :221:	
20		
	GCACAGAT ACCATCCCAC CTTGCTTTNT GACAGGCCAG CCACACAATA	50
	ACCCTTTCCC TACTCACTAA AGCATCCCTA GGACACCAAC AATGAGGACA	100
	ACCOTTTCCC TACTCACTAA AGCATCCCTA GGACACCAAC AATGAGGACA	100
25	GGCAGACTTA CCCCCGCCAT CTAGAGAGAA TGTCGTTATT ACCCATAAAA	150
		.
	CTCGACCACC CCCATATNCA CTNTTGGGTA AAAACAAACG CTTAAACCTG	200
	TGAGCCTGCC ATTCCTTTTT ACGTGTTAAT CAATT	235
30		
	(2) INFORMATION FOR SEQ ID :222:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs	
35	(A) LENGTH: 101 base pairs (B) TYPE: nucleic acid	
33	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(5) 1010501. 11.1041	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :222:



	 GCCAATNNNN NGGCGCGAGG GNNAGAGAGA ATGGCAAACA GGGACCCGGG	50
	CCTTAGGAAT TGANTGAGGA CTTAAATTTC CCCNGAGGGA GAGNAGTGGA	100
5	G	101
	(2) INFORMATION FOR SEQ ID :223:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 271 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :223:	
20	ACGGTGACTT TCCATCCCTT GAACCAAGGC ATGTTAGCCT TGGCTCCAGC	50
	ATGTCGTCAC CATTCCAACC AGAAATTGNC ACAAATGCTA CTGGTCGGGT	100
	TGACCAATTT TCTTAATGAA GTGCTGACTT CCTTAACAAT TTNTTATATT	150
25	TNTTCGACTG TAGGGCGCTC ATGAATCCAT TTCGTTAACA CCGACAATTA	200
	ATTGTTTCAC ACCCAGTGTG CAAGCCAGAA GGGCATGCTC TGGGTCTNCC	250
30	CATTCTTGAG ATACCAGCTT C	271
	(2) INFORMATION FOR SEQ ID :224:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 101 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	,

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :224:





	127	
	AGTATTATTT ACTNGGTCAT CTGGGAACCT TAATGTGATT TATTTTGACA	50
	ATTACTGTGG CACATGTTTA ATCTGCAGCT CCTGGCGACT ACTGTGCTTA	100
5	т	101
	(2) INFORMATION FOR SEQ ID :225:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 141 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :225:	
20	TTCATTCCCT CCAGTGCNCG NNCATGCGAC ATATACAGGN NNTGTACCGT	50
20	AGGCGCTANT GTGTGGTACT CTGCCACGNN ANACCNCNNC TCGTCTTGAA	100
	GACCCTGTTA ANTITGGTGA AAATAACTTT CCANATTTCA A	- 141
25	(2) INFORMATION FOR SEQ ID :226:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 218 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :226:	
	ATTTTCTTAT ACTCCTCCCA CAGATGAGTT CACAAATACA AAAANTGGTG	50
40	TACATTTATA CTCAAGNACA AATCTCCAAC AGCCAAGTAA TTATAGTTTG	100

TTCTGTTATG TGCAAAGTAG ATTATTTCAT ATTTACTTGG TATGGAAAGC

	AGAGTACAGG CTCAATGGAC AATAATCATT AAACACACAT TATNTTTAAG	200
	AAAANGCTGT TNNAAAAA	218
5	(2) INFORMATION FOR SEQ ID :227:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 209 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :227:	
	GAAAACTTTA TTTGTCCACA CCAGGATTAC CGAACAGAAN NACNNGGTGG	50
	TGAGAAGTTG GTATTNATAG CACCTTATTT ACATGATGGA CTTGAGGAGG	100
20	CAGTTAATCC TATGGTTGTG TATCACAACC TTTTATTAGC AATGCCATCT	150
	TCGTCTTGCC TCCNCCCTAC TTGAATATCC CTTACGGTCA ACANCCCNCG	200
25	GGGTTGGGC	209
	(2) INFORMATION FOR SEQ ID :228:	
30	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 179 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :228:	
	TTTNNCAANC CAAATGGTTA TTTATTCTAA AACTGGAAGC TACTTTGCCT	50
40	ANCATTTTCG CCAGAATGGT GTAATGNNNA CAGGGGAGGA AAAAAGTTAC	100



	AGATGTAAAC AATGACACAG TTACATTTTT TTTTTAAATG GTAAAACCCC	150
	TTTTTACTGG NCNTTCCAGA ANCTTACAG	179
5	(2) INFORMATION FOR SEQ ID :229:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 184 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :229:	
	AGTTTAATCT CANNNNNNA TGTCACAAGT TATTGTAGCA GTGAAACAAT	50
20	GAGGGCATAC ACTATATNGA AAAAAAAACC TCCTCCCTNA TTCTCACGCC	100
	AACCACAGGC TTCTGCCCTG CAAAGATCAC CAATGTCAAT AGTTTGGTAA	150
	TACACCATCA TAAAGGNTCC TAAATTCATC TCTA	184
25	(2) INFORMATION FOR SEQ ID :230:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 140 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :230:	
	GAGACAGATG TANNNAAAGT TCAGAATACA ACAGTTAAGA CTCAGTTTTC	50
40	TTTTTAGGTT TAGAATTTGA GAGCAAGTAT TGNTATGGTG AGCTGTTTTA	100
		140

40

GCAACCANGG



130

(2) INFORMATION FOR SEQ ID :231:

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 178 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :231:	
	CGGAGACTTG TCCAGAGAGT TGTCTCTTNT NNGTTGGGGG CCGTCCCGCT	50
15	CCTAAGGCAG GAAGATGGTG GCNNNTNNNG ACGAAAAAGT CGCTGGNGNN	100
	NATNAANTNT AGGCTCNAAN TNNTTATGAA AANTGGGAAG TAANTNNTCG	150
20	GGGGTAAAAG NAANATNNGA ANATGGAT	178
20	(2) INFORMATION FOR SEQ ID :232:	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 210 base pairs	
25	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :232:	
	GAGCCAACGC CACNNNNAG NTGAACCACA CTCACGAAAA AAACNCNTAC	50
35	CGTCGTCNTA ATACNNANTC TTCCCATACA AAAATCGTCC NTNTAAATNT	100
	NNTAAACCAA TTCACAGCCC ACAGAACNAA TCAGTAATTT TATANCTTCN	150
	NCGAAACCAC ACTTATCCCC ACCTTGGTCT ATTCATNACC CGGATNGAGG	200



(2) INFORMATION FOR SEQ ID :233:

(i)	SEQUENCE	CHARACTERISTICS:
-----	----------	------------------

(A) LENGTH: 247 base pairs

131

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

10

·5

(xi) SEQUENCE DESCRIPTION: SEQ ID :233:

	ACTGTGCGAG TAGC	ИИИИИИИИИ АААИТТ	NNACTCAGTT	TNATTTATAC	50
15	AAAAAGAAAG GGGT	GTGNAG TCCATGGTGT	TGTACAGTNT	NTAATTAGNC	100
	CANNACGAGA AAAN	AAANNNTNNN NNTANA	NNNTGAATTA	TGGGGTNAGG	150
20	ACTNTCTNAC NTTO	AAACNA NTATTNCACG	TAAAAAACAT	CACAGTGCGA	200
20	AGAAAGNNAN CNCA	NNTAGA GCANGAAGAC	ATCAAAAGCC	AGCCGGG	247

(2) INFORMATION FOR SEQ ID :234:

25

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 169 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

30

(xi) SEQUENCE DESCRIPTION: SEQ ID :234:

35	AAACACCAAA	NAAANNNNC	NAGCAANAAA	GTGGAAGACT	AACCAAGATT	50
	GTGGACATTG	GAATGTTTAC	TGTTATTCTG	TGTAAGAAAA	CAACTNACAA	100
40	AAAAGAAAAA	TGGNCAACAA	AATTGTTTCC	CGGCNAGGCT	GNAGGAAACC	150
40	NGGGGGAAAN	TGCCNGGGC				169



	(2) INFORMATION FOR SEQ ID :235:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 51 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :235:	
	GCANCACANA AAGGAGACGN NANAGCAACG CAGAGATAGC CATCCAGATA	50
3.5		51
15	G	31
	(2) INFORMATION FOR SEQ ID :236:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 101 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
0.5		
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :236:	
	CAAGTGTAAA TGCTTGCACC TCTCTNCCTC CCCGANTGAA CTCTCTGATC	50
30		
	TCAAACTTTT TTAGGAAAGC CAGATTAAAA GCAGACGTAC CTAAATNCAA	100
	A	101
35	(2) INFORMATION FOR SEQ ID :237:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 156 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	



(xi) SEQUENCE DESCRIPTION: SEQ ID :237:

133

	(xi) SEQUENCE DESCRIPTION: SEQ 1D :237:	
	CATTATAAAA CAGCCTAACT TCCCTTATGC CATATGATTG CCTTAAAAAG	50
· 5	ACCAGATOTO AAGGAAAAGA TOATOAAAGA GOAGAGATOT TGAAGOGGOA	100
	CAGTTTTCCA GCAGTTTTCG TATTTNTTTT TATTTACGAA TGCCATACTC	150
10	TGTTTT	156
	(2) INFORMATION FOR SEQ ID :238:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 148 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :238:	
25	GCAGNCTAAT TGTGAATCTA AGAAACTACT CATAGACATC CCACCCTAAT	50
25	GATTTTACCT NNAACNTTTG TCCTTCATCA TAGAACCCTA GCAACATCCA	100
	CCTCCTGTAG CACGAAACGA ATCAAACAAC CCCCTGGATA ACCTCTCA	148
30	(2) INFORMATION FOR SEQ ID :239:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 258 base pairs	
	(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :239:	

GAGTTTTAAC TTAATCACCT CTTTAAAAGA CCTGTCTCCA AATACAGTTA 50



	•	•
	AATTTGAGGT ATTGAGGGTT AGGACTTCAA CATGTGAGTT TGGGAAGGGA	100
	AGCACAAAAT CAGCCCCTAC CATGGTATAT TTATCATTGA TACATTACTA	150
5	TCAACTAAGC TCAAGATTTT ATTCAGATTT GACTAGTTTT TCCACTAAGG	200
	CCCTTTTCT TTTCTAGGNT CCCACAGAGG ATACATTACA TTTACTTACA	250
	TCTTCTCT	258
10	(2) INFORMATION FOR SEQ ID :240:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 377 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :240:	
	GAGCATTATT TGATGCAGAA GTTGAAAAAC AATAGACTCA AGAAAGAAAA	50
25	CAAACCAGTG ATTCCCCTTC CTCAGATACT GGGACTAACA GCTTCACCTG	100
	GTGTTGGAGG GGCCACGGAG CAAGCCAAAG CTGAAGAACA CATTTTAAAA	150
20	CTATGTGCCA ATCTTGATGC ATTTACTATT AAAACTGTTA AAGAAAACCT	200
30	TGATCAACTG AAAAACCAAA TACAGGAGCC ATGCAAGAAG TTTGCCATTG	250
	CAGNTGCAAC CAGNGGAGNT CCTTTNAAGN GNAACTTCTN GNATAATNNC	300
35	AAGGGTNAAC NTNTTTNNAA ANNNGCCNAA NCNNGATTTT GNACNCCCTT	350
	TNNCATTGGC ATTNANTGAA AAAAGTT	377
40	(2) INFORMATION FOR SEQ ID :241:	
40		

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 114 base pairs

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :241:	
••	GGNGCACTGN TCCGAGAGCT TTTTTTNCTG AAGAATAGCA TCTTTAATGA	50
10	GTGTNCTAAT CCTTGTCATC TGAAGTTTTG AAATATATTT CCCAGGGTCA	100
	GAACAATACA GAGA	114
15	(2) INFORMATION FOR SEQ ID :242:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 122 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :242:	
	CTCAAAATNC TGTGACAAAT TTNNNNGGTC AAGTTGTTNN CCATTAAAAA	50
20	GTACCTGATT TTCAAAAACC TAATAACCTT AAAACCNCCC CACGNAAAAA	100
30	AAAAAANCNA AAGNGGGCCC CC	122
	(2) INFORMATION FOR SEQ ID :243:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 171 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :243:	
	GAGAATGGGA AGCCTCATTT TGGGGACAAG AACCTGTACA AGGATTTGTG	50
5	ATGAACTTTT CCAATGGGGA AATTATAGAC ATCTTCAAGC CAGTGCGCAC	100
•	NTATGATATG CCTCATGATA TINTIGCATC TGAAGATGGG ACTNIGTACA	150
10	TTGGNGATGC TCATCCAAAC C	171
10	(2) INFORMATION FOR SEQ ID :244:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 235 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :244:	
	AACTTTACTG TCAGATAATA AAATTAGGGC TTTCTCTTAA AGGGCTTCTT	50
25	TAAGAGAAAT ACAGAGTGTT TGGTATNTGA GAGAAAAAAA GTTAAAACAG	100
	GACTTTCAAC TTAATCCAGA CTTCCTAACA GTGTTTACAT GTGAGGGAAA	150
	CTCCTTTAAG TAATGCGTAG TGTTTTATTT TTACCATCAT TGGNGACAAA	200
30	AAAAACAAAA ACATAAACAT CTNANGTGAA ATATA	235
	10) TURONYITTON TOP OR OR	
35	(2) INFORMATION FOR SEQ ID :245:	
33	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 211 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

. •	(xi) SEQUENCE DESCRIPTION: SEQ ID :245:	
	GGCCTAGCCT GCCATACCCT TACGAGCAGG CTCAGTGATT AGACTTTGAG	50
5	TCTAAGTTAA AAACGCCCTG CCCCCTTCTC GCAGGCCACC TACACCGTNN	100
	TTTTATCGAT TTGATAAAAC CACCAGCCTA CTCATCAAGN NGCACCCTGC	150
10	NTNTACNTCT AACCNTAACA TNACNGCGGC CACCTACTCA TGCCCTANTG	200
10	CAGCNCACCC T	211
	(2) INFORMATION FOR SEQ ID :246:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 194 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :246:	
25	GGCTGAGAAT CCTTGAGCTT ACCATTTGAT ATTTCTATAT TATTTAAGAA	. 50
	AAGTCAAAAG ATTTTGAAAA CAGCAATAGA AGTAAGATCC TTTAAGCTCT	100
30	ATTTGCAGCC CCTAAGAAAA GTGATGAGGA CACTGTGCAT GCCCATATGT	150
	GAACATGGTG GTACCTTAGG NATTTCCCTT TNTCNATGAA TATA	194
	(2) INFORMATION FOR SEQ ID :247:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 249 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID :247: GCCCCTCAA GGGCATCCTG GGCTACACTG AGCACCAGGT GGTCTCCTCT 50 5 GACTTCAACA GCGACACCCA CTCCTCCACC TGACGCTGGG GCTGGCATTG 100 CCCTCAACGA CCACTTTGTC AAGCTCATTT CCTGGTATGA CAACGAATTT 150 GCTACAGCAA CAGGGTGTGG ACCTCATGGC CCACATGGCC TCCAAGGTAA 200 10 GCCCCTGGAC CACCAGCCCC AGCAAGGCAC AAGAGGAAGG AGAGACCCT 249 (2) INFORMATION FOR SEQ ID :248: 15 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 248 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 20 (xi) SEQUENCE DESCRIPTION: SEQ ID :248: 25 GCCCCTCAA GGGCATCCTG GGCTACACTG AGCACCAGGT GGTCTCCTCT 50 GACTTCAACA GCGACACCCA CTCCTCCACC TGACGCTGGG GCTGGCATTG 100 CCCTCAACGA CCACTTTGTC AAGCTCATTT CCTGGTATGA CAACGAATTT 150 . 30 GCTACAGCAA CAGGGTGTGG ACCTCATGGC CCACATGGCC TCCAAGGTAA 200 GCCCCTGGAC CACCAGCCCC AGCAAGGCAC AAGAGGAAGG AGAGACCC 248 35 (2) INFORMATION FOR SEQ ID :249: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 82 base pairs (B) TYPE: nucleic acid 40 (C) STRANDEDNESS: double (D) TOPOLOGY: linear

	(xi) SEQUENCE DESCRIPTION: SEQ ID :249:	
	GGAGGGGACC GCAGCATCCA GCCCTCTAAG GCCGGGCAGC GGTCGCGTTG	50
5	GGGCAGAGCG CAGCGCAAGC AGGCTCAGTG TA	82
	(2) INFORMATION FOR SEQ ID :250:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 125 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :250:	
20	GGGGCCCTCA GGACATCCAC GTGAGCGTCT GCCCAGCTGC ACTGATATTG	50
	TNTTGCAAAT CCAGATTTGT TGNCATTACT GATGGGCGCG TGAAACCAGN	100
	GAGAGATGCA CAAGATTTAC AGGCC	125
25	(2) INFORMATION FOR SEQ ID :251:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 130 base pairs	
30	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :251:	
	GGCCCAGAGG TCCTTTACTC TTACGGNACA CCTTAGCCAC ATTCACAGGG	50
40	AATGNTCCAG CACTCAGGCT CCTTCCCATN GGTTTTCAAA AGCGCGTTTT	100
	TOTOGOGO OGGOCOCOTT TAGTOGACCO	130

140

	(2) INFORMATION FOR SEQ ID :252:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 216 base pairs	
. 5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :252:	
	GAGAAGGCTG GAGAAAAACC ATCCACACAT AAACAATNGN ATTTACTCNA	50
15	AAATNAAGTA CAGGTTTCAG GTATTTAAAA TAAATAAAGA AAAATCTCGT	100
	TTCCTTTGGC ATCTTTAGAA AATAAACTAA GCAATAAAAG AGGTGATTGT	150
20	ATAAAGACAT GCGTAAGCAA ACATATGGGG AAAACCAGCA ACTTGGTTTT	200
20	ATGNGATAAT ATCAGC	216
	(2) INFORMATION FOR SEQ ID :253:	
25	(i) SEQUENCE CHARACTERISTICS:	
-	(A) LENGTH: 249 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :253:	
3 5	GGAGAAGGAG GCTGATTGCG TACATCCAGC AGTTACAATT TTTAAAAATT	50
33	GGAGAAGGAG GCIGATIGCG IACAICCAGC AGIIACAATI IIIAAAAATI	30
	ACANTNUNNC NUTTNGATTN TTAATNTANG TAATTTCCTT CCAAAGAAGN	100
40	TTCACATGTA ATAAGTAGAA ATTCTGTATA GGAAAAAAGC ATTAAAAATA	150

TANATACNGC TTCATNCGTT GGGAACCATT AAAAGTAATA TAATNAGCTT

249 TTTTCAGAAG GATCTTTTGT AGCAGTGNTT ATGAATGNAC CCGCAAAAT (2) INFORMATION FOR SEQ ID :254: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 166 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 10 (xi) SEQUENCE DESCRIPTION: SEQ ID :254: GACCCCATTC TATATTATNC GTNNNGCGAT TTTTTAGCCA CCCTGAAGTT 50 15 ATATTTNTAT ACCNAGGCTT CGAATAATCT CATCNGACTN ACCACCCTNG 100 GAAAAAAAA ACCGTTTGAT ACATAGGNAT GNTNAGCTTG ATATCAATNG 150 20 CTCCCTGGGN TTCTTG 166 (2) INFORMATION FOR SEQ ID :255: (i) SEQUENCE CHARACTERISTICS: 25 (A) LENGTH: 223 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 30 (xi) SEQUENCE DESCRIPTION: SEQ ID :255: CCAGACCAAC CGCCTGCAGG AGGCTCTGAA CCCTCTTCAA GAGCATCTGG 50 35 AACAACAGAT GGCTGCGCAC CATCTCTGTG ATCCTGTTCC TCAACAAGCA 100 AGATTTGCTC GCTGAGAAAG TCCTTGTGGG AAATCGAAGT TGAGGACTAC 150 40 TTTCAGAATT TGCTCGCTAC ACTACTTTGA GGATGCTACT CCCGAGCCCC 200

÷	CTTCTNTTGT NACAGACAGC AGA	223
	(2) INFORMATION FOR SEQ ID :256:	
· 5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 292 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
10	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :256:	
15	GGAGAAGAAG GAGCAGGAGG TGATGCTACT GACTCAAGTC AAACAGCTCT	50
	TGATAATAAA GCTTCATTGC TCCATTCAAT GCCTACTCAC TCCTCTCCGC	100
20	TCTCGAGACT ATAATCCATA TAACTATTAA GATAGCATCA GTCCCTTCAA	150
	CAAGTCTGCC CTCAAGGAAG CCATGTTTGA TGATGATGCT GACCAGTTTC	200
	CTGACGATCT TTCCCTAGAT CATTCTGACC TGTTGTAGAG TTGTTGAAGG	250
25	AGCTGTCTGA CCATAATGAG CTGTAGAAGA AAGAAAAATT GC	292
	(2) INFORMATION FOR SEQ ID :257:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 238 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :257:	
40	AAGGAGCAGG AGGTGATGCT ACTGACTCAA GTCAAACAGC TCTTGATAAT	50
	AAAGCTTCAT TGCTCCATTC AATGCCTACT CACTCCTCTC CGCTCTCGAG	100

, •	ACTATAATCC ATATAACTAT TAAGATAGCA TCAGTCCCTT CAACAAGTCT	150
	GCCCTCAAGG AAGCCATGTT TGATGATGAT GCTGACCAGT TTCCTGACGA	200
5	TCTTTCCCTA GATCATTCTG ACCTGTTGTA GAGTTGTT	238
	(2) INFORMATION FOR SEQ ID :258:	
10	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 137 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :258:	
20	GGAGAGAAAA GTTCCTGAGT GACAGAGAAA AAGAACAAAA AGCTGCAGAA	50
	GGCNTCAGCA GAGGCCACTG CTGGCCCTGA GGCTGCACCA AGTGACGAAG	100
	AACCGGCTCC AAGCATTCGT CACAGCACTA ATTTAAA	137
25	(2) INFORMATION FOR SEQ ID :259:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 241 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :259:	
	GCGCGACTTT TAAGGGATTT GCNGTGATGC CTGTTGACCC AGTGCCTTCC	50
40	TAGCCGGGAA GGGGCTCGGC TGGAGTGNNA AGGCTCAGAA AAATTTCGCG	100
	AAGAAAAA CCTATGAGGT AATAATAGGA TTATTCCGTA TCGAAGGCCCT	150

	TTTTGGACAG GTGGGTGCGG TGACCTTGGT ATGTATTTTT CGTGTTACAT	200
	CGCGCCATCA TTGGATATGT TAGTGTGTNG GTTAGTAGGT C	243
5	(2) INFORMATION FOR SEQ ID :260:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 248 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :260:	
	GCGGACTTTT AAGGGATTTG CNGTGATGCC TGTTGACCCA GTGCCTTCCT	50
20	AGCCGGGGAA GGGGCTCGGC TGGAGTGNNA AAGGCTCAGA AAAATTTGCG	100
	AAGAAAAAA CCTATGAGGT AATAATAGGA TTATTCCGTA TCGAAGGCCT	150
	TTTTGGACAG GTGGGGCGGT GACCTTGGTA TGTATTTTTC GTGTTACATC	200
25	GCGCCATATT GGTATATGTT AGTGTGTTGG TTAGTAGGTC TCGTATGA	248
	(2) INFORMATION FOR SEQ ID :261:	·
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 239 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :261:	
40	GGATCTTTCA GGTGATGAAA TAGTTCTGTA TCTTGATTTT GGCGAATCTA	50
	CACANGTGAT GAAGTAACGT GATAAAATGA CATAGACCTG TATGCCTACT	100

	ACAATACAGT ATCAAAACCA GGGATTGATT CCTGGTTCTT TTCCAAATCC	150
	ACTTCCCAAA CTTATGGTAA GGTAATATTA AAAAGGCACC AAAGAGCCCT	200
5	GATCCCTGGA TAAACAGGAT CATTTCAAAG NNGTTTATA	239
	(2) INFORMATION FOR SEQ ID :262:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 143 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :262:	
20	GCCGGGTGAT GGCCAGGAAG GTGCCCTCTG TTTTTTGTAA AACAGCCATT	50
20	GGCCTTTGTC ATTGAGTCAC CACCTGCAGG GCTTGGGAGT GAGCGTTGGG	100
	TAGGNTCAGG CCCCCAGAAC CGCCTGGGTA CTCACCGCTA GCA	143
25	(2) INFORMATION FOR SEQ ID :263:	•• ••
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 246 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :263:	
	GGCGCTCAGC CTCCCCAAGG ACAAGCTCCT CCCCCTGTAA TACCTCCTCC	50
40	TAACAGCCGG ATATGGATGG CAAGTTACCA AACACAGTGA GCCGGGACTC	100
	TAAAAAAAA TAGCAATCCA GATAGGCTTC GATTTCCCGT GACACTCTGA	150

	AGACATGAAA GTAGACATCG AAAATGAAAA TANTTATNNA AATGAAATGT	200
	TTGGAACCTT TAGCACAGAT TTGTTTGGGA AGACACGGTC TTTTAG	246
5	(2) INFORMATION FOR SEQ ID :264:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 199 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :264:	
	GGCTCCATTA AGGACCAAAT TNATGCTACC ACTAAACAAA AANNTATAGT	50
20	CTGTGTTAAA TCGTATGCTT TTTAAAGGTA TTTAAAGATT CAACTAGCTT	100
20	TAAAGAGGCT GAGCAGCTCA GGAAGCCTGT AATGTGACAT AACTCTTTGG	150
	ACCTGATCTT GATGTTCTGC TGTTGTNAGT CTTGAAGAGC GTATNTGAT	199
25	(2) INFORMATION FOR SEQ ID :265:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 245 base pairs	
30	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :265:	
	GGTTTCAATC GTCCATCCAA GATACAAGAG AACGCATTGC CACTGATGCT	50
40	TGCTGAGCCC CCACAGAACT TAATCGCCCA ATCTCAGTCT GGTACTGGTA	100
40	AAACAGCTGC CTTCGTGCTG GCCATGCTTA GCCAAGTAGA ACCTGCAAAC	150

	AATATCCCGT GTCTTCTCTN TCCCAACGTA TGAGCTGCCC TCCAAACAGG	200
	AAAAGTGATT GAACAAATGG CAAATNTTAC CCTGAACTGA AGCTG	245
['] 5	(2) INFORMATION FOR SEQ ID :266:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 121 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :266:	
	AGGAAAAGAT GGGAATATGT TTCTTTCCTT TGAGAATTCA CAAAANGGGG	50
20	TCAAAAACAA AGCAATGCTG AAAGCGAACA TCCATTTNGC CTGCAATTCA	100
	AGGCGAAAAT CCAAAGGCAT C	121
	(2) INFORMATION FOR SEQ ID :267:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 169 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :267:	
35	GGGTCGCTCT CCCCCCCTCT TTCTTCGGGT TGTGTGCGTC TCCGCTTTCG	50
	TGATGTGAGG AACTCTGGGG TGGGCGACGG GTCCAACTCG CGTTGTCATC	100
40	TCCCAGGTTG GTACACCCCC CCCCGTTTC CCCAGCCACA CTCCACGGCC	. 150
	ACCCTCCACC CACATCTCT	160

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(2) INFORMATION FOR SEQ ID :268:

5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 200 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :268:	
	TCGCAGGAGA GGAATTACAT GCTCATCCTA GAAGGGGGG CTGACTGCAG	50
15	GTGTTGCTGG GAAGCCTCTC CAGGCCTGGA GCTGGAGTAC CCGTCCTCAG	100
	CACTGCCAGC AGAAAAGTT GTGATTCAAG GAAAGCACAT TGAATGCATT	150
	ATAGCAATCC CAGACCTAAG TTCGAAGTTG CTTTGTAACA AGTGCTGCCT	200
20	(2) INFORMATION FOR SEQ ID :269:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 163 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :269:	
	AGGGGGGCC AAGAGAGAAG AACTTCACAC TTCTTTATTG CTCAGCCTAG	50
35	ATAGCAGCAG CTGGGAATAC GTAGGACAAA CAGGACGTCG AACAAATTAC	100
	TCCACTATAT TAATATTCAC TACACCACTT ATTCTTTCT	150
•	CACTAAGTGT AGT	163
40	(2) INFORMATION FOR SEC ID .270.	

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 115 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :270:	,
	TCACACTTCT TATTGCTCAG CCTAGATAGC AGCAGCTGGG GAATACGTAG	50
	GACAAACAGG ACGTCGAACA AATTACTCCA CTATATTAAA TTCACTCACA	100
15	CCACTTATTC TTTCT	115
	(2) INFORMATION FOR SEQ ID :271:	
20	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 178 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :271:	
30	CCCGAGACCT GCGANAATGG TGCTGTGACG ACGAATAGCC ACGCATTATA	50
	GGGTNTTNTG TTATGGGGGA CACTCTACTA CGGGATGCGT ATGATGNGGN	100
	NCCATTATNG NAGTGGGCAT TGGGGGGAAA CAGAGCACCT GATGCTTTAC	150
35	TGCAGAAATN CCTATGTGAC TCTTATAA	178
	(2) INFORMATION FOR SEQ ID :272:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 178 base pairs	
40	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

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(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :272:	
	CCCGAGACCT GCGANAATGG TGCTGTGACG ACGAATAGCC ACGCATTATA	50
10	GGGTNTTNTG TTATGGGGGA CACTCTACTA CGGGATGCGT ATGATGNGGN	100
10	NCCATTATNG NAGTGGGCAT TGGGGGGAAA CAGAGCACCT GATGCTTTAC	150
	TGCAGAAATN CCTATGTGAC TCTTATAA	178
15	(2) INFORMATION FOR SEQ ID :273:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 135 base pairs	
	(B) TYPE: nucleic acid	
20 .	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :273:	
	CTCTAGTAAA AATGTTTGAG GAAACAAAAA TGGGGAAGAA GATCAGAACA	50
30	AAAANATTGT TAACACTGAC CGTCCTCATG CAGGTAGGCT ACTACCAACG	100
	CTGGTTGTTA CTCCAGGAAA ATCGAGGTGA ACATC	135
	(2) INFORMATION FOR SEQ ID :274:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 231 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ 1D :274:	
	TGTCGAGGAG AAGAAACCAC TTGATAACAC CCCGCGACAT CGTGGGGCTG	50
5	CTTGTCACAN GAAAGCACCA TGTTCGCAAT GGATTGCTGC AGGTGCTGCC	100
	GTTGCCTCCT CAGGGTCTGC TGAAAGTCAT CTTCTAGGGT CTGAACGACA	150
10	TAACGCAGGA AAAGGACTCG CCCAGGCAGA GTTTGTCCCT CTTCCTTCAT	200
10	GACATAGGTG AGCAGTTTCC AGTCCCACTC C	231
	(2) INFORMATION FOR SEQ ID :275:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 170 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :275:	
25	TCGCAGGAGA AGAAACCTNG TTGCTCCACA ATGCAACCAC ACTGATTTTC	. 50
	TCTTTTCTCT NNAGTTNTCC TTGTCTGTAA CAGGAATGTC CCTTACTATA	100
30	GCAGGCGGAC ACGGCCATGG GTCAAGCACC CTGCTTCTGG AACTTGNNNG	150
	NCGTNCCCAC CATTGATTGA	170
	(2) INFORMATION FOR SEQ ID :276:	
3 5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 315 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :276:	
	ATATGAAGGA GGAAATGGCT CTCACCTTCG TGAATACCAA GACCTGCTCA	50
5	ATGTTAAGAT GGCCCTTGAC ATGAGATTGC CACCTACAGG AAGCTGCTGG	100
	AAGGCGAGGA GAGCAGGATT TCTCTGCCTC TTCCAAACTT TTNTCTGAAC	150
	CTGAGGGAAA CTAATCTGGA TTCACTCCCT CTGGTTGATA CCCACTCAAA	200
10	AAGGACACTT CTGATTAAGA CGGTTGAAAC TAGAGATGGA CAGGTTATCA	250
	ACGAAACTTC TCAGCATTAC GATGACCTTG AATGAAAATN GTACACACTT	300
15	AGCGTAGCAT ATTNA	315
	(2) INFORMATION FOR SEQ ID :277:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 209 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :277:	
30	ACGTTCTGCG CCTTCCTAGG AGAGTCTTAC AGTGTTGAGA TTTCACAAGC	50
30	AATGCGAGTG TAAAATACCA GCTCTACAAG AAGCTAGGCT CTGTGACGGC	100
	ATAGTTTTCA GTAGCTTTAT CACAATGAAA CGAGAATTAT ATGACATGGT	150
35	AGCAGAAATA GGCCCTTTCG TGNGCTGTTC TATTTNCTCG GATNGTAGAT	200
	ATAGTAATC	209
40	(2) INFORMATION FOR SEQ ID :278:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 107 base pairs

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :278:	
10	AAGACATCCT AAGCTATGTT GAGGAGGGAG AAGATCTGAG ACTCAAGTTC	50
•	TGCTGTTAAC CATGAGGTGA TTTAGTAGCT AAGTACGCCT TAGCCTTTTA	100
	GAGTCTT	107
15	(2) INFORMATION FOR SEQ ID :279:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 276 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :279:	
	ATGAAGAGAA AACCATCCTC CCATATGAAA ATATTTGCAG TAGGAGAACA	50
	CAGTGCAATA GGCTCCAAAA ATGGCTTTTA AGACCTTTGG NGGGGCAGTT	100
30	onered and controlling addered a second of the second of t	100
	ACTACTGCTT TAAAAGCCAG GTTAAAGTAT ACTCTAAGCA AAGATGACCG	150
	TAGAGCAGCT AGCTTCCTTT TCTATAANNA TAGGGAAAGC TCTCTCCATC	200
35	GTCCATCAAA TCAGCTCTAG AAGGTTTTTC TTTCCCCNCT ATAAGTGCAC	250
	AAAGGGGAAA CACTGATTTC AAGCTT	276
	(2) INFORMATION FOR SEQ ID :280:	
40	(E) =	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 185 base pairs	

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
· 5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :280:	
	(XI) DECORAGE DESCRIPTION DEC 15 (120)	
	AGGAACAGGA TAGGTGTATG CATACTACGG CTAAGGAGAA ACAAGTCCTA	50
10		
	CATACCAGGG TAGTGAGAAC ATTACCGCAT AACAGGGAAC TGTGATTATT	100
	TAAAAAACGC AGAACTTATT TTATCCGTGC TTTAGAAATA ACTGTATACA	150
15	GTGTTATAAG TTGAAAAGAA CTCAAAACAA CCAAT	185
	(2) INDODUMETON FOR SEC ID . 391.	
	(2) INFORMATION FOR SEQ ID :281:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 186 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :281:	
	AGGAACAGGA TAGGTGTATG CATACTACGG CTAAGGAGAA ACAAGTCCTA	50
30	CATACCAGGG TAGTGAGAAC ATTACCGCAT AACAGGGAAC TGTGATTATT	100
	CHIRCONGG INGIGNANC MINCOGCHI ANCAGGGANC IGIGAIIMII	100
	TAAAAAACGC AGAACTTATT TTATCCGTGC TTTAGAAATA ACTGTATACA	150
35	GTGTTATAAG TTGAAAAGAA CTCAAAACAA CCAATA	186
	(2) INFORMATION FOR SEQ ID :282:	
	(1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 198 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

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(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :282:	
	TGTGGGCTCA GTAATGTCCC CGCTGATGAC AATTTCGAGA GTCCATGTTC	50
10	TATAGAAACC TTGAGGTCGG CCAGCCGTGT CTTGGCCAAT GAGATGTAGT	100
10	TGTGAGGAGG GGGCGTACTT GGGGACCAGG GGTGGGTGGA GATGTGCCCT	150
	GTAGGCACAG GGAGACTCAA AAGCACGAGT TNTGAAAGCG TAAATGGG	198
15	(2) INFORMATION FOR SEQ ID :283:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :283:	
	AGAAAAAGGT GAAGCGAAGC CCAAGGACAC CATGCTAAGG GCAAAAGTAA	50
30	GAGACAGTCT CAGAACTGAG AGAATCGTGT CTTCTGCTTT TTGAAGTAGA	100
30	CTGTCACACT CAGGCAGCCT GTCAATGCTG AATGTTAGGA CTTCTGTCTC	150
	CGCTGGAGAC ACGCCTGGGC AAGTCAGCGT TTAGTGTTTG ACAGCTTTCT	200
35	CAGCTCCCTG ACTCCGTTTA CC	222
	(2) INFORMATION FOR SEQ ID :284:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 162 base pairs (B) TYPE: nucleic acid	

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :284:	
	ATGGATCAAA CTACCTCTAT AATGAAGACT GTTCTCAAAA ACGCGAGGNA	50
10	ATGTGNGACG ACACTGACCT ATCAGACAAG AGGGCATGCC CCCCTGGCCA	100
10	CCTTTGNCGC TGTTTNTGCA ACGTTCGCAG TGNTACTCTG CGTGAACCGG	150
	TAGACTGCTT GG	162
15	(2) INFORMATION FOR SEQ ID :285:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :285:	
	GGATÇCANGC AAAGCCCACT CCTCCAGGGT GAAGTTTTTC TCCCGCGACA	50
30	GACAGCAGAC TCGAGCC	67
	(2) INFORMATION FOR SEQ ID :286:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 153 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID :286:

	GGTCGGATCA GGTCACCCGG CAGCAGCAGC TCTCGAGAGC TGAGGCACAA	50
	GGCAGGGCC CGGCTGTACA CCTGCAGGAC CCAGGAGAGC CTGTTGCAGT	100
5	TCTTGTCCGA AGCGCCGAGA TAGCCACTCA GTGTCCCTGC AGCAGGAGCA	150
	GAA	153
••	(2) INFORMATION FOR SEQ ID :287:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 293 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(2, 2333233	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :287:	
20		
	TACTACGGCT AAGGAGAAAC AATGTTCCTA CATATCACGG GTAGTGAGAA	50
	CATATCTGCA TAACAGGGAA CTGTGATATT TAAAAACAGC AGAACTTATT	100
		150
25	CCATCGTGCT TTAGAAATAA CTGTATACAG TGTTATAAGT TGAAAAGAAC	150
	TCAAAATAAC TGATATAAAT ACATCTATGT ATTAGAATTT AAAAAAGCTG	200
	TORRALIANO TORTATARAT ROLLOTTITOT, ITTIOGRAFIT TRABELLOCTO	
	CTTTCTGTGA AGTCAATCAG CTATATTAAA AATGACACAA ATCCAAAACC	250
30		
	GATGCATGCC ATATANAAGG GACATTGNAA GTCCGCTCGC TGC	293
	(2) INFORMATION FOR SEQ ID :288:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 114 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :288:	
	AGGGTAAATG TACGTTGTTG AGTCACAGGC CTGCCAGACC TCTACTACCT	50
5	CATTGTCCCC TCCGGTGACC AGTTCTGCCG TCACTGTCAG GAGAATGCCC	100
	GTGTTGAATC ACTG	114
10	(2) INFORMATION FOR SEQ ID :289:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 290 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :289:	
20	ATGAACCAGT GCCCGAGGTA CCCGGGTGTG GACCAGAGAA GTTTGCTGGA	50
	AAGGACGTTG CCAGGACTTA CACGTTTACA GATCCAGCAA CTGCTCTNCC	100
25	CAGTGCCACA ACCATGGGGC GCCAACCACA AGCAGGAGTG CCACTGCCAC	150
	GCGGGCTGGG TCCCACCCNA CTGCGCGAAG CTGCTGACTG AGGNGCACGC	200
30	AGCGTCCGGG AGCCTCCCTG TCCTTGTGTG GGGTATGGNG CTCTGGCGTT	250
30	GNGCTGGTTA CCCTGTAGGA GTTANTGNCT ACCGGAAGCT	290
	(2) INFORMATION FOR SEQ ID :290:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 179 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :290:	
	AACCGCTCTC CACACCGCTC CCACGAGCTC CAAGCTTAAA CGTCCAGATN	50
5	NACTTTGTTG CTTTGCTGAT TTTAACAGCT TGATTCTAAG CNCTTACTAG	100
	TATCATNTGT GGCAGGACTT GNTCCATATC AGTGTTACTT TTGCTACTGT	150
	TTTGTAGAAC GATGTACATG AATGAGCCT	179
10	(2) INFORMATION FOR SEQ ID :291:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 199 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :291:	
	TCTTTCATTT TGNCTGCCAA TCATTGTCAG AAATTTAGGG AAGTCAATTG	. 50
25	TGCCATTACC ATCGGCATCT ACTTATTAAT TATGTCCTGT AACTCTGCTT	.100
	CTGTGGGATT CTGCCCAAGA GATCTCATTA CAGTTCCCAA TTCTTTGTTG	150
30	TTATAGTACC ATCACCATTT CGTTAAATAG TGAAAGAGCT TTTTGAATC	199
	(2) INFORMATION FOR SEQ ID :292:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 177 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :292:	

. •	GGAAGACCAT TCTGATCATC CTCACTGACG CCP GGCAA GAGGGTGGTT	50
	TTCCTGAAGC AGCTGGCTGT GGCTTATACT CGTGACTGGA CCTCTGGNCT	100
5	CAATTGAGTT CCTCAACGAA GACCACACCA GAAATTGTCA TTGCCACCTC	150
	AACCGAANNG ATATTACAAT GTAAAAA	177
10	(2) INFORMATION FOR SEQ ID :293:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 295 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	, ,	
	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :293:	
20		
	ATTGGTTTTC CTCATCCACT GAGAATGCTG CTGGTTACTG CAAACGTTCA	50
	CCAACCANAG CTTTGGTCCA TACAGCTTTC TTCTAGATTN GGAGACTCTC	100
25	AAGGACAGCA GGNGCTTTAA AATCCCTGGA CTGTGTTGAG AGGGCTTCTT	150
	TAGGCTTTTC ATGATGTGAA TAGCCAGTCA TGAACTTTGN GTCTGTTTCT	200
	TTTAGGCTCT TTTTGCAGCA GCAGAGCCAT GCTATNGAAG GAGTGAGAAC	250
30		
	CTATGCGAGN GACCCNGTGN TTGNACTTGC CAGGGAGCTT GGCGT	295
	(2) INFORMATION FOR SEQ ID :294:	
	(0, 0 0	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 78 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :294:	
	AATGATCCTT TTTTCGCTCT TACCTATAGT ACAAGTCCAT GATACTACTG	50
·5	CATATTTTAC CATTTTGNAA ACTGTGAG	78
	(2) INFORMATION FOR SEQ ID :295:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 163 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :295:	
20	ATTCTGTACC TGTTCTGAAC CTCGCCATAA GGGACTTGCA GCTTCGATTT	50
20	GCTAACCTGA AATTCTGCTG CTGCCATGGA ACAAGCCTGG GCTAGCTTGG	100
	GGGAGGAGGA GAGACCATGT GGAGTAGAGC CAAGCTCTGG ACATTTGAGA	150
25	GAGCCCGGTA ATA	163
	(2) INFORMATION FOR SEQ ID :296:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 189 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :296:	
40	AGCTTAGAGC GGAACGGGTT CCACGTGCGG TACTCCTGCT TCACGCCGCC	50
70	CTCGGTCACC GTGACGCGCC TCTCGCCGTA CACAGACTGG CCCGGCACCA	100

	TGTTAGCGTG ACCAGCGCGT CCTCCGCCCC GCGTNAGATG AAGAGGCCCT	150
	CGTGCCGGTG CGCTCCACCG ACACCACCAT GGCCCCTTC	189
. 2	(2) INFORMATION FOR SEQ ID :297:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 199 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :297:	
	GGAAACCAGC CCCTCACATC CTCCCTGAAC TTCCTGTCCC CACTCACACA	50
20	AGTGGTCCGG TGTCACCCTG CAGTTGGGTA TAGTCATAGG TACCATTGAT	100
20	GACGCCTTCT ACCTCGGCCA TGTAGGCCTT CCAGTCAACC TCTGTGTCTG	150
	GAAGAAGACA AGATGATCTG GTTACTTTTG AGTCTAGAAC TTGTCTGCC	199
25	(2) INFORMATION FOR SEQ ID :298:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 181 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :298:	
	AAAAGATGAT AAATCCACCC TCNTGCTCTT AAAATCCCAT AAACGNTAGG	50
	CTCTGGAGAA ACAAGTTGTT CTGTCGAGCC CTTGCCATCA ACACACTAAG	100
40	CAATCATAGT CCCCCAGAGC ACNAGATACT GCTAATGACC ATTANATNTT	150

	GTATCATCAT GCTGCCTCCT GCATTTGAAT T	181
	(2) INFORMATION FOR SEQ ID :299:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 314 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :299:	
15	AACATTGTTT ATTCATCCAG CAGTGTTGCT CAGCTCCTAC CTCTGTGCCA	50
	GGGCAGCATT TTCATATCCA AGATCAATTC CCTTTTTAGC ACAGCCTGGG	100
20	GAGGGGTCA TTGTTCTCCT CGTCCATCAG GGATCTCAGA GGCTCAGAGA	150
	CTGCAAGCTG CTTGCCCAAG TCACACAGCT AGTGAAGACC AGAGCAGTTT	200
	CATCTGGTTG TGACTCTAGC TCAGTGCTCT TCCACTACTT ATATNCGCCT	250
25	TGGTGCCACC AAAAGTGCTC CCCAAAAGGA AGGAGAATGG GATTTTTTCC	300
	GAGGÇATGTA CATT	314
30	(2) INFORMATION FOR SEQ ID :300:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 168 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :300:	
40	•	
	AAGAGTCCTG AAGGCATATC CAAGCCTGTT GTTCCTGCAG ACCTCATTAC	50

. •	CACGCCAACA GAGAAGGCTG GACTGCTGCC CACATGCTGC TTCCAAAGGT	100
	TTTAAGAACT GCCTAGAAAT CTCGTGTAGG CACGAAGGGC TTGAGCCAGA	150
5	AAGGAGAGAC AAGTGCAA	168
	(2) INFORMATION FOR SEQ ID :301:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 142 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :301:	
20	ACCCCACATG CCCAGATGTC CACGNGCTTG CNATACGCCT CTTTGCAAAG	50
20	GACCTCAGGG GACAGGTACC TGGTGTGCCA GCGAAACCAA ACCATGCCTG	100
	CTGGTTCCCC TGACCTCGAT AGCTAGGCCA AGTTTGCCAG CT	142
25	(2) INFORMATION FOR SEQ ID :302:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 197 base pairs	
	(B) TYPE: nucleic acid	
.30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :302:	
	. AGAATTCGTA ACTCATCCTA GAGTGGGCAC ATTTTAGACA TAGCAGGCGT	5
40	GATGACCAAC AAAGACTGAA GTTCCCTATC TACGGAAAGG CATGACTGGG	100
		15

	TGCTTAGTTC AGATACTCAA AAATGTCTTC ACTCTGTCTT AAATTGG	197
	(2) INFORMATION FOR SEQ ID :303:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 236 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :303:	
15	AGAATTGCAA CTCATCCTAA GTGGGCACAT TTAGACATAG CAGGCATGAT	50
	GACCAACAAA GATGAAGTTC CCTATCTACG AAAAGGCATG ACTGGGAGGC	100
20	CCACAAGACT TTCATCGAGT TCTTACTTCT TTCAATCAAG ACAATGCTTA	150
20	TTCAGATACT CAAAAACGTT TCACTCTGTC TTAAATGAAC AATTGAATTT	200
	AAAAGTTTTT GAATAAATGA TGAAAATTTT TTAACT	236
25	(2) INFORMATION FOR SEQ ID :304:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 220 base pairs	
30	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :304:	
	ATGTCATTCT CCTCATCCTC CGCATCTCCA CTGTCGTGCA CAAGGACCAC	50
40	CATGTTTCCT TTAGTTCCCA GCACACGGGG CTCTGCAGTA GTGAATGAAG	100
40	mambaababa aabaacaaa abmaacabaa amabaabaa abaacbaara	150

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	GTCCACCAAC ACACCGGGTA CGTCCACCGA GCCTCTCCAC TGCTCTGGCT	200
	TTAGGCCTCC CGTACAAACT	220
5	(2) INFORMATION FOR SEQ ID :305:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 145 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :305:	
	AGAAGAAAGG ACACCATTAC CATCCATATT GACATCGCAT TTCCATAGAA	50
20	ATGCCAAAGA AAGAAGGTCC TGGGGTTTTT TATAGAAGCT CAAAAAGNTC	100
	AACCTTCGAT GCTATCCCCC AGCCCAATAC AAAATCAGAA AAAGC	145
	(2) INFORMATION FOR SEQ ID :306:	4
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 120 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :306:	
35	AGTCAAGGCA TTATGGTTTT TAATCTGAAA CTTAGAGAAC CCTTTAATAT	50
	TNGCTTTTAC TGGCGTACAT ATGAGTGGAA TATAAACTGT ACACACNNNG	100
40	NGNTGATATA AACAGATNNA	120
	(2) INFORMATION FOR SEQ ID :307:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 120 base pairs

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :307:	
	AGTCAAGGCA TTATGGTTTT TAATCTGAAA CTTAGAGAAC CCTTTAATAT	50
	TNGCTTTTAC TGGCGTACAT ATGAGTGGAA TATAAACTGT ACACACNNNG	100
15	NGNTGATATA AACAGATNNA	120
	(2) INFORMATION FOR SEQ ID :308:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 247 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :308:	
30	ACTGCACCCA CCCCAAGGCC ATGGCAGGGT ATGGAGATGT CATTTATCAT	50
	AAGATGGACA GATAAGCTGG ACCAATAATT AAGATTCCAG CAGAGGGTGA	100
	GGACACCCAG ATGCGCCAGG ACTGTAGGAA ATCACAATGA TGGCAACGTC	150
35	TTGCCTTCCT GGGGACAGGG AGCCCTATTC AAANANAGTC ACATCTGAGG	200
	AGCCGGGGT TATAACATCA AGTCTGTCCT TGACCTCACA AAGCCAG	247
40	(2) INFORMATION FOR SEQ ID :309:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 107 base pairs	

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		•
	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :309:	
	·	
	AGGTAAGGTT GTCACGTGGA ACAACTGATA AAGGTCAGCT ATATATGTAG	50
10	•	
	AGCTATATAT GTGAGTCACA AGGTGTGTGA CATACGTGTA TACGTATAAT	100
	ATGCGTT	107
15	(2) INFORMATION FOR SEQ ID :310:	
	(a, a a a a a a a a a a a a a a a a a a	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 114 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(5) 10102011 11	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :310:	
	(NI) ODEOLICE PRODUCTION. DRE ID .O.C.	
	GGAAGACCTC GCTGGACATC CTGCAGGGCC ACATGGTGGC TCTGCTTGTG	50
		50
	ATTCTGGGGT CCACCCTCTC CAGTCAAGAG AACCCCCGTC GGGTTTAATG	100
30	MITOTOGOT CONSCIONS CHARACTER ACCEPTE GGGTTIANTG	100
	TATCAGGAAA GAGA	114
	Intendental Great	114
	(2) INFORMATION FOR SEQ ID :311:	
	(2) Intomation for one in the control of the contro	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 237 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(C) STRANDEDNESS: GOUDIE (D) TOPOLOGY: linear	
40	(b) ioromodi: linear	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :311:	
	ATGGCAAATA GGAAGAAGCT CAGTATCCTC CTCCCACCAT AACCCCACTC	50
5	TCCACTGCCT CCTGGACCAT AGTTTCCTCC ACTATACGGT CCCCCCATGT	100
	TCCTGCTACC ACCAAAGTTT CCACTCTTTA TCGAACCGTA TTAGAAGGTC	, 150
	GCTGGTTATA ATTTCCAAAA TATGTAATTT CCACTTCCAA ATCCTTTATA	200
10	GTTGTCATAA CCACCTCCGT AGCCCCCACC CTGTTGC	237
	(2) INFORMATION FOR SEQ ID :312:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 147 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :312:	
25	TNNTCCACAA CAGNGGGACT ACTGAAGACT AGAGAACGCC TCTGTGNGAG	50
	TGGTGCAGAC AAAGACCTCA CTAAAGTGNG CTTAACAGAG TACTAGAGGA	100
30	GAGAACTTGG CAATAGCAAG TACAGACAAC TATGTGAGAA ATACTGC	147
	(2) INFORMATION FOR SEQ ID :313:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 151 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :313:	

	CACAACAGNG GGACTACTGA AGACTAGAGA ACGCCTCTGT GNGAGTGGTG	50
	CAGACAAAGA CCTCACTAAA GTGNGCTTAA CAGAGTACTA GAGGAGAAA	100
5	CTTGGCAATA GCAAGTACAG ACAACTATGT GAGAAATACT GCTCCCAAAG	150
	G	151
	(2) INFORMATION FOR SEQ ID :314:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 287 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
0.0	(xi) SEQUENCE DESCRIPTION: SEQ ID :314:	
20	Chaccarden company and a management	
	GAAGGTTGTA CGTGGACACT ATAAAGGTCA GCAAATTGGC AAAGTAGTCC	50
	AGGTTTACAG GAAGAAATAT GTTATCTACA TCGAACGGGT GCAGCGGGAA	100
	TOTAL STATE OF THE	100
25	AAGGCTAATG GCACAACTGT CCACGTAGGC ATTCACCCCA GCAAGGTGGT	150
	TATCACTAGG CTAAAACTGG ACAAAGACCG CAAAAAGATC CTCGAACGGA	200
	AAGCCAAATC TCCCCAACTA COAAACCAAA AAGCCAAAAA	
30	AAGCCAAATC TCGCCAAGTA GGAAAGGAAA AGGGCAAATA CAAGGAAGAA	250
	ACCATTGAGA AGATGAGGAA TAAGTAATTN ATATANA	207
		287
	(2) INFORMATION FOR SEQ ID :315:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 183 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(b) 10101001. IIHear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :315:	
	GGAATCAAAC GNCTCTATAA TGAAGATAAT GTTCAGAAAA CGTGGGTTCT	50
5	GTGGTGACAC TGATTTATCA AGACAAGAGG GACATGCTTC CCCTTGTCCA	100
	CCTTTGCAGC CTGTTTCTGT CATGTAGTTT CAACAAGTGC TACCTTGAGT	150
	GTAAACTAAG GTAGACTACT CTGNGAATAA GAA	183
10	(2) INFORMATION FOR SEQ ID :316:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 135 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :316:	
	GGAATGAATC AAACGNCTCT ATAATGAAGA TAATGTTCAG AAAACGTGGG	50
25	TTCTGTGCGT GCACTGATTT ATCAAGACAA GAGGGACATG CTTCCCCTTG	100
	CCACCTTTGC AGCCTGTTTC TGTCATGTAG TTTCA	135
30	(2) INFORMATION FOR SEQ ID :317:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 187 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :317:	
40	COTTTO DAT TOATCOCARC TOTAGGOTGA OTGACOTGAS OTTGACAGAC	50

	TGCCGAAGTC CAAAAGCTTC AGCATTTCCT TAGTGTCAGG ATCTACTTCA	100
	ATAATNNTGA TCCAAGGCTG AGACCTCAGA AACATAATGC TCTCCTTTCC	150
5	CTATNTTTC TGCGGCTTGA TGGAGATACC TTTACTG	187
	(2) INFORMATION FOR SEQ ID :318:	
10	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 268 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :318:	
20	TCCCAGGAGA AGGAACTTTG AAATTCATCC CAACGTAGGC TGAGTGACCT	50
	GAAGATTGAC AGACTGCCGA AGTCCAAAAG CTTCAGCATT TCCTTAGTGT	100
	CAGGATCTAC TTCAATAATN NTGATCCAAG GCTGAGACCT CAGAAACATA	150
25	ATGCTCTCCT CCCTTNCTTT TCTGCGCTTG ATGGAGATAC CTTTCACTGT	200
	GCCTCTCTGA ATCGTTTCAT CAGATGCTGA CGTAACCTGC TATTTGTTGN	250
30	AGCTTTCNGT TGNNNTAA	268
	(2) INFORMATION FOR SEQ ID :319:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 138 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :319:

	ACTGCACCCA CCCCAAGGCC ATGCAGGGTA TGGAGATGTC ATTTATTATA	50
	AGATGAACAG ATAAGCTGGA CCAATAATTT ACAGATTCCA CAGAGGGTGA	100
5	GGACACCCAG ATGCGCCAGG ACTGTAGGAA ATCACAAT	138
	(2) INFORMATION FOR SEQ ID :320:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 118 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :320:	
20	AAATGATGAT AAATTCATCC TCTTCTGCTC TTAAAATTTC ATAAACCTCA	50
20	GGCTCTGGAG AAACAAGTTG TTCTGTTGGG CCCTTGCCAT CAACACACTT	100
	GTAATCATAC TTCCCCCA	118
25	(2) INFORMATION FOR SEQ ID :321:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 160 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
3 5	(xi) SEQUENCE DESCRIPTION: SEQ ID :321:	
	AGAACAGTTG AAGGTCTGAG GTGTTGAGAG GCAAATGGGG TCTCTGGGTG	50
40	GATCCTGGTC CTGTCAGCAG GCCTGGACTT GTTCAGGATG GACTGGTGGC	100
40	CTTATABACC CCACATCACC CTCCCTCTCC CTTCGCATCT CCCTTAAGAT	150

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	 TTCCTTTTCC	160
	(2) INFORMATION FOR SEQ ID :322:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 281 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :322:	
15	AGGAGGGAGT TAATCCAAAC CACACAATGA AGTCTTCAAA CCACCNCCCG	50
	AACAGGGCTG CTGATTGTTC CTTTCACTTT TGNGGTGACC TTGAGCTCCC	100
20	TTAAAAAAA AACTTGGAGA ATCACAACTG GCAATGCACC GCAGTTCTCG	150
	AACTACACAA GCATAGTCTG ACTAAGTCAC ATGTGTTTCC ATATCAACTT	- 200
	GTTTGACAGG GCGACCTACT GCAAAGCAGG CTCAGTTACC CCACCAGTCA	250
25	ACCCCTGGG AGTATAATNN TCTCCATANA A	281
	(2) INFORMATION FOR SEQ ID :323:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 99 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
2.5		
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :323:	
40	GGAATTTTCT CAAAGAAAAC GCAATAGCCA ATTGGAACCT ACTNTANCGC	50
40	ANTITATION GICTICITTA ANNIAGAGIG ACTIACIGAT ITATIATIG	99

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(2) INFORMATION FOR SEQ ID :324:

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 167 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :324:	
	GGAATTTTCT CAAAGAAAAC GCAATAGCCA ATTGGAACCT ACTNTANCGC	50
15	ANTITATION GTCTTCTTTA ANNTAGAGTG ACTTACTGAT TTATTATTGA	100
•	CACNIGTOON NIGCIONAGN TTACCATOCT TATGTGAATA CTICAAGGGA	150
20	TTGCCCGCGT TTTTAGG	167
20	(2) INFORMATION FOR SEQ ID :325:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 160 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :325:	
	TGATCCAACT CTTCCTGTGT GAAAAGAAGA ATGATGGCAG GAAGAACATA	50
35	AAGACTTTAA AACTCCTAGC CGGGGTTTGT CGGACTCTTT GNCAGTAGTG	100
	ATTTAGCCAA CCAGGCAACA GAGATACGAT CTAATCTCCT CGCCCCTCTT	150
40	TCGGGTCGCG	160
40	(2) INFORMATION FOR SEQ ID :326:	

(i) SEQUENCE CHARACTERISTICS:

	A Committee of the comm	
	(A) LENGTH: 124 base pairs	
	(B) TYPE: nucleic acid	
-	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :326:	
10	DESCRIPTION: SEQ ID :326:	
	GGAAGGGGTG TTGTTTCATA CARACTER	
	GGAAGGGGTG TTGTTTGATA GACATTATCT GTGGCTGGGT CTTTCTGGCT	50
	GATGAGAGAC ATCTAGATTA	
	GATGAGAGAC ATGTAGATTA TGTGAAGCAA GTGGCTAGAA GATGAGAGAG	100
15		100
	AACATGAGAG AGCAGAGTGC TCTC	124
	(2) Tympa	124
	(2) INFORMATION FOR SEQ ID :327:	
20	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 253 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :327:	
•	= 5250KIFIION: SEQ ID :327:	
	AGCCTAGTTT GAACATCCTC ATCCCNATAGE	
30	AGCCTAGTTT GAACATCCTC ATCCCNGTGT TAGACCGGAT CCGATATACA	50
	GAGTCTTAAG GAAATCCCAT CAAAAA	
	GAGTCTTAAG GAAATCGCAT CAACGTGCCT GAGCAGTCGG CTGTGACTCT	100
		200
	CGACAATGTA ACTCTGCAAA TCGATGGAGT CCTTTACCTG CCATCATGGA	150
35		150
	CCCTTACAAG GCAAGCTACG ACGCGAGGAC CCTGATATGC CGTCACCCAG	
		200
	CTAGCTCAAA CAACCACGAG ATCAGAGCTC AGCAAACTCT CTCTGGACAA	
		250
40	AGT	
70		253
	(2) INFORMATION FOR SEQ ID :328:	
	,	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 200 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

· 5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :328:	
10	GAACCTCTGG GCTCTCATCC TCTCCTATTG ACAGTGAAGC CCATGGCAAA	50
	TAGAAGAAGC TCAGTATCGG CTCCTCCCAC CATAACCGCG TTNAAATCGC	100
15	CTCCTGGACC ATAGTTTCCT CCACCATAAG TCCCCCCATG CTCCTGCTAC	150
	CACCGAAGTT CCCACTCCTG NGCGAACCGT AGTTAGAAGA TCGCTGTTAT	200
20	(2) INFORMATION FOR SEQ ID :329:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 280 base pairs	
	(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :329:	
30	TGACCTGATC ATCCTGAAAA ACTTTATGGG GGAGAAAGGT CAGCAGCTTC	50
	TCTTTCTTTT NTCGAAAATN ATAAAACTGC GTATTCTACT TTATATTTAA	100
35	TGTAAGGAAG AAAATATACA AGCCCATATT TACATCGTAT TTCTATTAAG	150
	AGCAACAATA GTTCATATGT TCATGTTTGC TACTATCACA ATNCAACATA	200
40	TGAACACAGA TCAGCTCTAT ACCATGAATA CTGCTGGAAG TGATGGTTTA	250
40	GGATTACCAA CTCACTGCTG CCATGACCGA	280

	(2) INFORMATION FOR SEQ ID :330:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 268 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :330:	
	CCTGAAAAAC TTTATGGGGG AGAAAGGTCA GCAGCTTCTC TTTCTTTNT	50
15	CGAAAATNAT AAAACTGCGT ATTCTACTTT ATATTTAATG TAAGGAAGAA	100
	AATATACAAG CCCATATTTA CATCGTATTT CTATTAAGAG CAACAATAGT	150
20	TCATATGTTC ATGTTTGCTA CTATCACAAT NCAACATATG AACACAGATC	200
	AGCTCTATAC CATGAATACT GCTGGAAGTG ATGGTTTAGG ATTACCAACT	250
	CACTGCTGCC ATGACCGA	268
25	(2) INFORMATION FOR SEQ ID :331:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 170 base pairs	
•	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :331:	
	TCGCAGGAGA AGGAACCTAT ACACCCTTTA TAGAGCTTTA AATCGACTGT	50
40	AGAGTTTTGT GGTCTTCCAG TCCCAAATGT TTAATTTTCC ATTTGCATTN	100
- -	TGAAATCACA TAACTCATGT CTGAAAAGTC CAGGTCAGAA GGATAGGTGG	150

	TACCATATGC CCTTAAAAAT	170
	(2) INFORMATION FOR SEQ ID :332:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 223 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :332:	
15	TCGCAGGAGA AGGAACCTAT ACACCCTTTA TAGAGCTTTA AATCGACTGT	50
	AGAGTTTTGT GGTCTTCCAG TCCCAAATGT TTAATTTTCC ATTTGCATTN	100
20	TGAAATCACA TAACTCATGT CTGAAAAGTC CACCTGACAA GCATACCTGC	150
	TACCATATGC CCTTAAAAAT NNGGNNNNNG NNNNGGNTGA ANGGTTCTGT	200
	GTTCCAAAAA TNTAAGATTT GTT	223
25	(2) INFORMATION FOR SEQ ID :333:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 132 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
3-	And A GROUPING PROGRESSIVE OF TRANSPORT	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :333:	
	AGACAATTGG CGGCATCCTC GTAGGCTTCA CTAACTCCCA CAAGTTCTTC	50
40	TGGTTTCATT TCGGTTATTT TTTGCAGCCA ATTCTCTCCA TGTTTGGCAG	100
	TCACAAGGCT CATGTGCTTC ACCAAGGCAC TC	132

(2) INFORMATION FOR SEQ ID :334:

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 235 base pairs	
· 5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :334:	
	AAGTTGTTCA TGGNAGGCAT TTATCCTNTC AATAATNCAA ACGAGGCTTC	50
	AGGIGITER IGGNAGGERI ITRICCINIC ARIAMINEAR ACGAGGERIC	5(
15	TGGAATAACC AGTGCCCCAT TCCATCAGAG TCTTTGCGCG ACTAAAGCCT	100
	CCATNTTTGC CAATTTCAAT TGTTTGGGAT TCTAGCACTC CTTACCNGCA	150
	GTAATGCCCT TGCTGCAGAC AACAACACCT GGACTGNGAG ATGGACCAAT	200
20		
	TCTCAATGGC AATCCAGGGA AAGAGTGATC CTTCT	235
	(2) INFORMATION FOR SEQ ID :335:	
	(2) INFORMATION FOR SEQ ID :555:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 169 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(**)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :335:	
35	ATGCCCGCAC CATCCGCTAC CCCGATCCCC TCATCAAGGT GAATGATACC	50
		30
	ATTCAGATTG ATTTAGAGAC TGGCAAGATT ACTGATTTCA TCAAGTTCGA	100
	CACTGGTAAC CTGTGTATGG TGACTGAGGT GCTAACCTAG GAAGAATTGG	150
40		
	CNCATCACCA ACACCACAC	100

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150

200

250

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	• •	(2) INFORMATION FOR SEQ ID :336:	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 193 base pairs	
5		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
10		(xi) SEQUENCE DESCRIPTION: SEQ ID :336:	
		ATGCCCGCAC CATCCGCTAC CCCGATCCCC TCATCAAGGT GAATGATACC	50
15		ATTCAGATTG ATTTAGAGAC TGGCAAGATT ACTGATTTCA TCAAGTTCGA	100
		CACTGGTAAC CTGTGTATGG TGACTGAGGT GCTAACCTAG GAAGAATTGG	150
		GNGATCACCA ACAGGAGAGG CACNCTGNAN TCTTTTGGCN NNG	193
20		(2) INFORMATION FOR SEQ ID :337:	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 307 base pairs	
25		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
20			
30		(xi) SEQUENCE DESCRIPTION: SEQ ID :337:	
		CAAAAGTCAT CCACAAGTTC TTTGTCTAGG ACTTCTAGCT GCTCAGACCC	50
35		TCAGGGTCTT TGGATTGTTA CCAAAGTCTG TCAAACAGAC CAGTAGTTTA	100
		ATACCTGTAC AGAAAAATGT TTCTATTATG CTTCTAGTAT CTAGAAATTG	150

CTTGCTACAG CATGGAGGTG GTTCTGCCTT TCCCTGGCTC CTCACACTCT

CATCTGCAGG ATTCCCAGCT TTGCTCAGTC TTCATGCCCA CCAGAGGCAA

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	AAAGGCAAAC TAAAACTGTC ATGCAGTGGT AGGTTTGAAA TNAGCTGCTG	300
	CATCATG	307
· 5	(2) INFORMATION FOR SEQ ID :338:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 305 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :338:	
	AAAAGTCATC CACAAGTTCT TTGTCTAGGA CTTCTAGCTG CTCAGACCCT	50
20	CAGGGTCTTT GGATTGTTAC CAAAGTCTGT CAAACAGACC AGTAGTTTAA	100
	TACCTGTACA GAAAAATGTT TCTATTATGC TTCTAGTATC TAGAAATTGC	150
	TTGCTACAGC ATGGAGGTGG TTCTGCCTTT CCCTGGCTCC TCACACTCTC	200
25	ATCTGCAGGA TTCCCAGCTT TGCTCAGTCT TCATGCCCAC CAGAGGCAAA	250
	AAGGCAAACT AAAACTGTCA TGCAGTGGTA GGTTTGAAAT NAGCTGCTGC	300
	ATCAT	305
30	(2) INFORMATION FOR SEQ ID :339:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 101 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :339:

. •	AATATAAAGA GGAAATGGCT CNTCACCTTC ATAATACCAA GACCTGCTCA	50
	ATTTAAGATG GCCCTTGACA TTGAAATCGT ACCTACAGAA AGCTTGNAAG	100
5	G	101
	(2) INFORMATION FOR SEQ ID :340:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 113 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :340:	
20	GTCGCAGGAG AAAAAAGTCG TCACGTCATG CGAGTGCGCA GGGGGCGTGG	50
20	AGAGTAGCAG TAGAGCAACA AAGTACATAT AGGACAGTGC AGCGAGGACA	100
	AGGACTTCCC GCA	113
25	(2) INFORMATION FOR SEQ ID :341:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 209 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
2.5	(w/) CROUDINGE DESCRIPTION CEO TO 2241	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :341:	
	ACACAAATAA CTACATNTAC GCAATATAAT NTTTAAAAAT CCAAAGCAAT	50
40	ATAAAAGAGC AGAGCTAGGA CTGAACAGAA CATTTTGGTG TATAACCGGC	100
• -	ACCTCADANT CGCCAGCTGA TTGGAGTANA ACTGATTCTA AGCGTATTAA	150

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	ATACGATTGA TTGTTTCCAT CACTAAGGGT GCCTATGAGT TTCTGAACCA	200
	TTTCTAGGG	209
5	(2) INFORMATION FOR SEQ ID :342:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 252 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :342:	
	GATCAANCAA AGCACAGGGA AAAGAGGCAA AATGATCACA GAAATCCGTT	50
20	TTTTAGACAG GTGTGACTTA CACTAACGAA AAAGAAAAAC ACATGAATAA	100
	GCTTTTAATC TTCATTTTTN NNTTTTGTNA TGGTAGGCTG AGATGCTTTT	150
	AAATGTGATG TTATAAGCCT AAGGCAGCTT GACTGCAGCA ACAAGTTTTT	200
25	TACCCTCCTT GGCAAAGCAG GTCTCCTTAT GTAGCCTTGC AGCACTTCTC	250
	TA	252
30	(2) INFORMATION FOR SEQ ID :343: (i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 258 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :343:	

GATCAANCAA AGCACAGGGA AAAGAGGCAA AATGATCACA GAAATCCGTT

	TTTTAGACAG GTGTGACTTA CACTAACGAA AAAGAAAAAC ACATGAATAA	100
	GCTTTTAATC TTCATTTTTN NNTTTTGTNA TGGTAGGCTG AGATGCTTTT	150
5	AAATGTGATG TTATAAGCCT AAGGCAGCTT GACTGCAGCA ACAAGTTTTT	200
	TACCCTCCTT GGCAAAGCAG GTCTCCTTAT GTAGCCTTGC AGCACTTCTC	250
1'0	TACAAAAC	258
1'0	(2) INFORMATION FOR SEQ ID :344:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 227 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :344:	
	GAAGGAACCA GTGACCAGTC ATCCCCAGAG ATAGATGAAG ACCGGATCCC	50
25	CAACCCACAT TCAAGTCCAC TTTGCAATGT CTCCACGGCA ACGGAAGAAG	100
	ATGACAAGGA TCACACCCAC AATGAAAGAG CTCCAGATGA TGGTTGAACA	150
30	TCACCTGGGG CAACAGCAGC AAGGAGAGGA ACCTGAGGGG CCGCTGAGAG	200
30	CACAGGACCC AGGAGTCCGC CCACCTG	227
	(2) INFORMATION FOR SEQ ID :345:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 188 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :345:	
	AAATAAAAA TAAGGTCCAA GCCAATGCCT AACAGATAAT AAGAGCTCAG	50
5	TAAATGTTGA TTGAATACTA ACAAAGTAGT GAAAGCAGAC GACACAGTAC	100
	CTGGCACACT ACTAAACTGT AAATGTTTTC AAATCTGAAT CTGTAGAATT	150
10	CTGTAAGGTT TTATGTAATA TGANGTCATT AGCTATCA	188
	(2) INFORMATION FOR SEQ ID :346:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 262 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :346:	
	AAATAAAAA TAAGGTCCAA GCCAATGCCT AACAGATAAT AAGAGCTCAG	50
25	TAAATGTTGA TTGAATACTA ACAAAGTAGT GAAAGCAGAC GACACAGTAC	100
	CTGGCACACT ACTAAACTGT AAATGTTTTC AAATCTGAAT CTGTAGAATT	150
30	CTGTAAGGTT TTATGTAATA TGANGTCATT AGCTATCATG NCTCTGGATT	200
	NNCTNNNAGG TTTTAAGATG GAGCATCTGN GNATGTCAGC CCGTCCTATC	250
	TAGAAGTGNA AA	262
35	(2) INFORMATION FOR SEQ ID :347:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 159 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :347:	
	CTCTGTTTTC CAAACGCCCA TGTGTGCTAT ACTACAACTC TTCTCGAGTC	50
5	TGATCAATTT GCAGTAGACC ATTTTAGTTC TTACGACGTT AATAACAAAC	100
	ACTTCAACAT CANTGCTCCA ATCTGAAGTT CTTGTTGCAT TGTTAAAAGA	150
10	AATNTCTAA	159
	(2) INFORMATION FOR SEQ ID :348:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 283 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :348:	
2.5	TCGCAGGAGA AGGAAGCTGC ATGCACTTGA AAGGCATGGC CTGTCTCCTC	50
25	ACTGAGTGCA AGGTCCATCG ACCAAAGCCC TGTTCTGATC AATAACATCT	100
	ACAATCGCAC CAATTTTCCG GCATGAGGTC CAAAGGAGAC ATAGGCCACC	150
30	CGGCCAACCT CCACGAAGCG CCTGAACACC ATGCGCTTCC CGGGACCCTC	200
	TGGGAGCCGT TCGCNCCTCA GCTTCCCAGC GAGGTGGAGG TCGAGCGGCA	250
35	TGGNCGACGC CCCGGAGCCC ACAACAGTAA GAC	283
33	(2) INFORMATION FOR SEQ ID :349:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 169 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(C) STRANDEDNESS: GOUDTE (D) TOPOLOGY: linear	

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	(x1) SEQUENCE DESCRIPTION: SEQ ID :349:	
5	CAGAAAGGAG GCATTGAGCA AAAACTAGGA AAATCTGAAT AAACNGTGGA	50
	CCTCGCTTGG TTAATATATT TANACTGGTG ACTCATTTTA AAACTTTCCC	100
10	GGGCGCGATG GCTCATGTCT GCAATCCCAG CACTTGNGAG GCTGAGCGGG	150
10	TGGATCACCC AGGTCAGGA	169
	(2) INFORMATION FOR SEQ ID :350:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 175 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(b) Torobodi. Timedi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :350:	
25	GAAGNAACCA GTACCAGTCA TCCCCAGAGA TAGATGAAGA CCGGATCCCC	50
	AACCCACANT TAAGTCCACT TTGCAATGTC TCCACGGCAA CGAAGAAGAT	100
30	GACAAGGATC ACACCCACAA TGAAAGAGCT CCAGATGATG GNGAACATCA	150
	CTTGGCAACA NCACAGGAAG GGACC	175
	(2) INFORMATION FOR SEQ ID :351:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 206 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	, ,	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :351:	
	AAATAAAAA TAAGNACCCA ACCAATGCTA CAGATAATAA GAGCTCAGTA	50
· 5	AATGTTGATT GAATCACTAA CAAAGATAAA AGCAGACGAC ACAGTACCTG	100
	GCACACTACT AACTGTAAAT GTTTTAAAAT TGAATCTGTA AAATTTGTAA	150
	GGTTTTATGA ATATAATATT ATTAACTATT ATGTCTCTGA ATTTTTNNNN	200
10	NAGGCT	206
	(2) INFORMATION FOR SEQ ID :352:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 76 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :352:	
25	AGACATACTG TAGTGTCTAA ATAATATTTG TCNGAAGATA ACAATTATGG	. 50
	GACTTTAAAG CCGACAGTGA AATTAT	76
	(2) INFORMATION FOR SEQ ID :353:	
30	ALL GROUPINGS GUARAGERICETICS.	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 245 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(6, 5555555 2565	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :353:	
40	ACATTTGGCC CTCAGACTGT AATTTCCATA CTACTNTGAC TGATACTAGA	50

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	TGACCTGGCT GCCTAGGGGC TGTGCTGGTC TGATTTTTTG TGAGACAAAA	100
	ACCACTCTAA ACCTCCTGGT GCACTGAGGC TGTACACACC GNCAGAACAG	150
·5	GGCACTGCGT TTAAAAGTTT CTGACCAAGT GGTGACAACA GAGGNCAAAC	200
	GTAAGGCTGT CTGGATAAGT TGAACCTNGC TGANCGGTAG CACCA	245
10	(2) INFORMATION FOR SEQ ID :354:	,
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 179 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :354:	
	GGAATCTGTG CCACACAGCT GCACACGACT ACTGGCCAAA GGACAGCCTC	50
	AGAACATCAT GAGCTGGCGT GACCTCATGA TGNNCCTCAN TGCTGTGGGG	100
25	CTTCTGCTNG AGGCCAGCAG AGGCTCGTAT GACTACCTGT NAGACCTGCT	150
	CTTTGGGTTG AGACTTTTCA GNGACAACT	179
30	(2) INFORMATION FOR SEQ ID :355:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 139 base pairs	
	(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :355:	
40	AAGGAACGNA TGACTTTCCA TCCCTTGAAC CAAGGCATGT TAGCACTTGC	50

	TCCAGCATGT TGTCACCATT TCAACAGAAA TCGCACAAAT GCTACTGTGC	100
	AAGGTGCAGC CAATTTTNTT GTAAGTGTGA TTTCTTACG	139
5	(2) INFORMATION FOR SEQ ID :356:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 100 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :356:	
	TCCAGGAGAA GGAAAACTTC CACTTATAAC TGTNTCAGCC TGACTATAAT	50
20	GAAGAGACTA GCAACACCTC CTGAACACAA GCCTANTGAG CCCAGTCTTT	100
	(2) INFORMATION FOR SEQ ID :357:	
	(i) SEQUENCE CHARACTERISTICS:	+
	(A) LENGTH: 137 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :357:	
	AGAAGGAAAC ACCAAAGAAA CATCCAAGCA ATAAAGTGGA AGACTAACCA	50
35	AGATTTGGAC ATTGGAATGT TTACTGTTAT TCTTTAAGAA ACAACTACAA	100
	AAAGAAAATG TCAACAAATT TTTCCTAGCT AACTGAG	137
40	(2) INFORMATION FOR SEQ ID :358:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 228 base pairs	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :358:	
10	AAGGAACAAG TGGGTCATTC TCACTAAGGC TGCCTGTCAC TGCAGTCTTG	50
	ATCAGCTTGT CAATTTGATA CTTCAGCTTT TGGTCCAAGG GACGAAGCTT	100
	TTCCAAAACC GTTCGAATCT CTACCAGTCT CAAAACTGCA TCATGTCCCT	150
15	GAAGAGATCC TCCTGAGGCT TTGTCCAGAA TGAGGTGGGT CAAATNNANG	200
	GGNACATGAG CAGCAGCTGN TCTTTAAC	228
20	(2) INFORMATION FOR SEQ ID :359:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 248 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :359:	
30	CAGGAGCAAG GAGGCCATTT TGCTGAGCTC TCACAGCTGC TAGAGATGCT	50
	CAATGACTCC CAATACAACC CAAAGAGACA AACGCTTGTT TTTTCTGCCA	100
35	CACTCACCCT GGTGCATCAG CTCCTGCTCG AATCCTTCAT AAGAAGCACA	150
	CCAAGAAAAT GAATAAAACA GCCAAACTCG ACCTTCTTAT GCAGAAAATT	200
40	GGCATGAGGG GCAAGCCCAA GGTCATTGAC CTCACAAGGA ATGAGGCC	248
40	(2) INFORMATION FOR SEO ID :360:	

193

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 253 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

	(xi) SEQUENCE DESCRIPTION: SEQ ID :360:	
10	AGGCACCTGT GGAGCCATCC TCCTTGTTTT AATCGTCCTG CTGCTGCTGC	50
	CGTTCCGTGT CGCGTCGCCC ACATGACCCT GAGGTCGCAA TGATGAGTCC	100
15	TCTCTGGTCA GACACCGCTG GAAATGAATA CCAGGCCTGA CCTCAAGCAA	150
	CCATGAACTA GCTATTAAGA AATACANNGG NAGGGCGGCA GCCGGATCGT	200
20	GNNGGCGTTT NTCTGNGCCG CCCGTCTCAA TCTNTGTTCT GCTTCCAGAT	250
20	GCC	253
	(2) INFORMATION FOR SEQ ID :361:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 154 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :361:	
35	GAGAACCACG GGCTCCATCC TGGCCTCCTG TNCACCTTCG AACAGATGCG	50
	GATTAGCAAG CAGGAGCACA CGAATCAAGC CCCTCCAGCC ACCAAATTTT	100
	CTAAACNGGC TNGGCNATGT CGTAGTTNGT TGTCAGTNGA TCGGTAGAGA	150
40	TAAT	154

	(2) 2.110.41.1120. 10.0 22 10 1002.	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 168 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :362:	
	GAGAACCACG GGCTCCATCC TGGCCTCCTG TNCACCTTCG AACAGATGCG	50
15	GATTAGCAAG CAGGAGCACA CGAATCAAGC CCCTCCAGCC ACCAAATTTT	100
	·	
	CTAAACNGGC TNGGCNATGT CGTAGTTNGT TGTCAGTNGA TCGGTAGAGA	150
		200
	TAATCCTGNC CACGCCCT	168
20		200
	(2) INFORMATION FOR SEQ ID :363:	
	(0, 0.000.000.000.000.000.000.000.000.000	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 198 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	. (5) 10102011 1211011	
30		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID :363:	
	(x1) Digonnon bibexilition. Dig 15 .303.	
	AAGGGATAAA AGGAAGCTTT GNCACCACTC TACCATCAAA NNGGAATTGA	50
	ANOUGH AND ANOUGH THE THE THE THE THE THE THE THE THE TH	50
35	ACATTCCCAT TAAGGCAGTA AAACAAAAGC CAATAGCAAA CATGNATTTC	100
55	ACATTOCCAT TANGGENGTA AAACAAAAGC CAATAGCAAA CATGWATTIC	100
	ATTCAACCAT TGATAGATCT CTGCCGTTAT TCTTCAGTTT CTCTTCTCGT	150
		150
	CTCTCTATTT NTTTCTCTGG TTGTCGACCA GCTGACTNTG NCATCGTT	198
40	DIDITALLI MILITOLOGG LIGIOGROCA GOLGROLATO NORICGII	136
40	(2) INFORMATION FOR SEQ ID :364:	
	(2) INFORMATION FOR BEQ ID :304:	

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 121 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :364:	
10	TTATACAAGT CAAACTTGGA AGGTCATAGT AAGCATACCT ATGCTGAGAG	50
	AAAAGCATCA AATCCTCCGC GACACATCTA GTTCATCGTA ACAAAGCAAC	100
15	TCGTACACTT TCAAGTTTAA A	121
	(2) INFORMATION FOR SEQ ID :365:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 211 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :365:	
30	GGTAAGTTGT ATTTGGGCCA GAATTTTAAA GAGCACTATT TCGACATTAA	50
	AATGTATTCT TCTCGTATTA ATGCCTACAT CTTCAGAGTT TTCAATGCTT	100
	TCTAAAAGTT TCCTCTTTGG AAAGAAGAAA TCTGAAAGAC CTATCATGCC	150
35	GTTCTTCCTG GCGTCTATAT TTCCTTTAGA GAGGCAAGGT AGGATTCCGT	200
	CTCCAAGGGA G	211
40	(2) INFORMATION FOR SEQ ID :366:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 285 base pairs	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(b) ToroLogi: Timear	
· 5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :366:	
10	CGGCTACAGC ATCACATCCA CTAAATGCAC AGTTGTTGAA GTCACGCCCT	50
	GCCAGACCTC TACTACCACA TTGTTCCCTC CGGTGACCAG TTTGTCCGTC	100
	ACTGTCAGGA GAATGNCCCG TGTCGAATCA TCGATCTCCA TCCGAGCCAA	150
15	AAGTTTTCCA TATGCTGAAA TTACTGAATT GCCCTCGTTT ATAGTATATG	200
	ATACAGTGGC CTTCGTTGGA GGCAGATATC AAGCATGGGG ATAAGCAGTT	250
20	TTCTGGTCCT TAAGGGCTCT CAGCAAATCT CCGTG	285
	(2) INFORMATION FOR SEQ ID :367:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 149 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :: 367:	
	GACACTGAGG CAGCTACTGA GAAGGGCAGA ACATGTCTCA ATCCATAGAG	50
35	GTCTTGGCAG GCGAACCCAG AGAGACTTGC AGTACGTGAG AAGATGGAGA	100
	ACCAAATAAA AGGACTGGAG TCCAGTTCAA ACAAGGAGGG AGTGGTAGT	149
10	(2) INFORMATION FOR SEQ ID :368:	
. -	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 137 base pairs



	334	
	CTATGACCCA GCCATGGGAT CAGGCTCATT GCTTTTGACG ACTGCTTCAT	100
	ACATGAAGAA TGATGGTGTT CGTGGGGCCA TTAAGTACTA AGCCAAGAAG	150
5	TTATCACGAC AACCTATAAC TTGGGCCGAA TTAACTTGAT GATGCACGGG	200
	GTGGAGTATA ACGATATCAA TATCCATAAT GCAGATACCT TGAGTTCAGA	250
	CTGGC	255
10	(2) INFORMATION FOR SEQ ID :787:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 206 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	The same of the sa	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :787:	
	CATTGAAAAG TGCCTGAAAA ATGGTAAATT CTTAAATGTG TGTGAGATTG	50
	CATTORIUM TOOCTOM TOOC	
25	TCAGAATCAA CAAAACTAGG TTGGTTAAAC ATATCTCTGG TACATCAAGG	100
	•	
	GGCATGATAC AAACCAGTCT AAAGACTGTT TATAAAGGAG AGAGCTGGCG	150
	TOTAL TOTAL TOTAL METERS OF A DESCRIPTION OF THE STATE OF	200
20	ACTTATTTTT ATTTTTTTT TTTTGGACAG ACTCCCTTTG TCCCCAGGCC	200
30	GGAGTG	206
	GGNOTO	
	(2) INFORMATION FOR SEQ ID :788:	
3.5	(i) SEQUENCE CHARACTERISTICS:	
35	(1) SEQUENCE CHARACTERISTICS. (A) LENGTH: 260 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	• •	



	TGAGTATTCG TACAAGAAGC GACCAATCTT ACCGGCATCA AGTGC	295
	(2) INFORMATION FOR SEQ ID :785:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 303 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :785:	
15	GTGTAAAGCG AGTAGCCCCC AAATCAGTCA TCTTGGCCTG AAGATGTAAA	50
	CAAGGAGGTT TGCTTCCTGC AAGATGAGTA CTTCACTGAG TTTGGTTTTC	100
20	ATTTTTCCTA CACCGAAGCC ACCTCTGTCC ATCCAATGTT CATGTCTGTC	150
	CGAGGCTGCG CAGGAGGTTA CGTCAAGATG TGGCCAATAA AGTCCAAAAA	200
	GCGCTTTGAA TACTGTTCTG GGTTCACGGT GGAGATCTCC GCGCAGCCAT	250
25	GTTTAACAGT TTTTGCAGCA TGGGCAGCTT TCTTTTTTGC ATCATAATGA	300
	GTA	303
30	(2) INFORMATION FOR SEQ ID :786:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 255 base pairs(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :786:	
	TATGGCGCGG ATCCTAACGG CTGGAATGAA GATATGCCAA CGTACAGCCT	50



(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID :783:

10	CACAGCCAGA	GCTTCGTCCT	CAGTGACCAC	AGGGCTGAGC	CAGGCTCAAC	50
10	CGGCTTCTGG	CTCTTGTTTT	GCAGAAGAAG	AACTAGAAGC	AAGGNGCTTT	100
	CCTCCGGGTC	CCAGAGCTGT	TAGTGATGGA	GCCAGGCCTG	GGATCCAGCT	150
15	TTCCTGAGTT	CCTGACCCCT	GCTATTTTAT	TAGTCAGCTC	TCAGCACTTA	200
	CCAGAGGAAC	AGGCAGCCTT	TTGGCTACTG	CCTTCAGAGA	AAGAGAGATG	250
20	AGAGAATTCA	AATGCGTGTT	GGTGTTCCTG	TTAGTACAAG	CAGCA	295

(2) INFORMATION FOR SEQ ID :784:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 295 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

30

25

(xi) SEQUENCE DESCRIPTION: SEQ ID :784:

	CAATAGCGAC	TTCTGGTGTC	AATTCGATAA	TCGGCCAATG	GATACTTCAC	50
35	GTGTGTTTCA	TCGTCTGTAA	TAACGGCGAA	TGGTGTCACT	TCAGAACCAG	100
	TACCTGATGT	TGTTGGAATG	GCAACCATTT	GTGTCAAACG	CACTGGTAGA	150
40	ACTTCACGAT	ACGCTTACGG	ATGTCCATGA	ACTTTTGTTC	TATTTCCATG	200
40	AACAATTCCT	TGATACCTTC	TTCGTCTGAC	AAAATACCTT	CGTGACGTGT	250

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 188 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :781:	
10	C1C1C11CCC 1CC1T1CT1C TOTOCTCC	
	GAGAGAACCC ACCATAGTAC TGTCTCCTGC AGACAAGACC AACGGCAAGG	50
	CCGCCTGGGG TAAGGTCGGC GCGCACCTGG CGAGTATGGT GCGGAGGCCC	100
	SOURCE THANKS TOOK GEGENEETES CONSTRUGGT GEGENEGEEE	100
15	TGGAGAGGAT GTTCCTGTCC TTCCCCACCA CCANNNACTA CTTCCCGCAC	150
		130
	TTCGACCTGA GCCACGGCTC TGCCCAGGTT AAGGGCCA	188
	(2) INFORMATION FOR SEQ ID :782:	
20		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 182 base pairs	
	(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :782:	-
30		
	AATATTTATT TCATTTGTTT ACTACCACTT CATTTTATTT GTTTGCTGCT	50
	GCCGTTTTAT TTATTTTTAC TGAAAGTGAG AGGGAACTTT TGTGGCCTCC	100
35	AACCTTTTTC TGTAGGCCGC CTTAAGCTTT CTAAATTTGG AACATCTAAC	150
	NACOMONNON CONNINCED CONTRACTOR	
	AAGCTGAAGN GGAAAAGGGG GTTTCGCAAA AT	182
	(2) INFORMATION FOR SEQ ID :783:	
40	(=) = 2	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 295 base pairs	
	. ,	

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :779:	
	TCGGATTTAT ACGGCTGTTA GTGCTATCGG CGTCTGGTAT GTGTTATATA	50
	TCGCCTATCG TTTTTTGGCC AATGGGCGTT GGCTACGCGG GGCAATGATT	100
10	GCCATCGTTT TTGTTATCTT GACTTATTTC GTCATTTTAA ATATTATTTA	150
	ACTATTTTAC AAATAAAGTG GTCAAATGGG ATATTTTGCC AAAAATAGAG	200
15	AAAGTGTTAG GCGGCCCACA GCTGGAGGAA GAGAAAGCGG CTGTGCATGA	250
	AGTTATTGCA CCCGC	265
20	(2) INFORMATION FOR SEQ ID :780:	
,	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 249 base pairs	
	(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :780:	
30	CTCAGCTGGA CCAAATTAGT TGAATTACTC ACCATCAATA AACTATAAAT	50
	GGCGCCAATG ACCAACCGC CAACGATTCC CGTTGTCAAA GAACCTAATA	100
35	ACAAGTAACC AACCGCAGCC CCAACAAGCC CAACTAGGTT TAAAAAAACC	150
	AAGCAAAAGG CCAACTGTCC GTCGTTTATT GGATTGTATC TGCTCATATA	200
40	ACATTAAAAC TTAACCGTTG GCACTTCTTT CTCAGACCCG CCGATACTG	249
40	(2) INFORMATION FOR SEQ ID :781:	

	(x1) SEQUENCE DESCRIPTION: SEQ ID :777:	
	AGATTCTGCA GTGTAATATG ACCAAATCAA ATCCGTTGTA TGATCGAATA	5(
5	AGGCCGTCAT AAAGTAAGTT GAAAATTTCG TTCTTGGCTG AATCGTGTTA	100
	AACCGTTGTA CACAACGTAG TAAAATTCAT AACCCATCTG CATACCAATC	150
10	GTCAGCCGTG ATGCATTTAC TCACTTTACG TCGATGAATG TCAAACATCG	200
10	CACCTTTCA ATGTTTACTA AAAACATAGC ACGCAATAT	239
	(2) INFORMATION FOR SEQ ID :778:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 252 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :778:	
25	ACTGAACAAC GTAAGGTCTT GACTGACACT TACAAGTTGG ATGAATCTGA	50
	AATAAAGTTG GTATTGTTTG AAGCAGCCCA ACAATTTCGA ACATGCTACA	100
30	AGACCGTCGT TTGACTGACA AGGCCTTGAA GTACATGACT GACAACAACG	150
	TCGATCTTCG CCTAGGCGCC ATGGTCACTG GTGTTGACGA AAATGGCGTG	200
	ATTTTTAAGG ATGACTCAAC TTCGCCAACT CGGTTCCTCA TTAGGACAAC	250
35	TA	252
	(2) INFORMATION FOR SEQ ID :779:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 265 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	



	TGAAGGARAT GACTACCTTG CACTACATGA AAAGGATATC GTTGCCATTG	50
	TGGCGTAATT TTCGTGCCGA GTGAATGTGG CGCAAACAAC TATATATCNA	100
5	AACCGTATAT TTAAAATGAA TTACTAGAGA GGGAATGTAA TCATGGCAAA	150
	AGAAATTAAG TTTTAAGAAG ATGCTAGTGC TAAGC	185
••	(2) INFORMATION FOR SEQ ID :776:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 255 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	` '	
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :776:	
20	ATCCAAGCCC ATACCCATCA ACAATGGGAC AGCGATTGGA TCACCAGCCA	50
	TTTCACCACA CATGGCAACA AACTTACCTT CTTTAAGAGC GGCAGTAATC	100
25	ACATCGTCGA TCAAACGCAA AATCGATGGG TTATAAGGTC GATACAAATA	150
	AGCAACCTTA TCATTACCAC GATCTGCAGC CATCGTATAA CCAATCAAAT	200
30	CGTCGGTACC AATCGAGAAG AAGTCCAATC CCTTAGCAAA CTCATCAGCC	250
30	AACAT	255
	(2) INFORMATION FOR SEQ ID :777:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 239 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	



·	GAATTAGAGG TAAAGGAATC CTAAAATAAA GAGCACAGCA GCAATCACAC	100
	TCACAGGGTC CAGAGGCGTA TTCCTGGCCA TCTTCCTAGT ACTCGGTCCG	150
5	т	151
	(2) INFORMATION FOR SEQ ID :774:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 299 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :774:	
	ATCTTAATGA ACATGGCATT TAAAATCCTG TAATTTCAAA CAGTGAACCA	50
20	CAATGCCGTA TGATCTAAAG GCTGCTGAAC CACAGCGTGG ATACACTTAA	100
	OTTO 1 OT	•
	CTGAGCTCCT CGCTGGGTCA AAGCACTCAT CTCCGAGTCT AAAGCTACAC	150
25	ACTATGGAGC ACACAACTCT GCCTCGCGCT GACACCAGAC AAACACGGCG	200
. ,	GGAGCTGAGG CGGACAGCTA CAGGACCACG AGCATAGACC ACGGCACCTG	250
	AGACCATCTC TACGCAAGGA CTTAAGGAAG CAAATATAAT ATTAAAATA	299
30	(2) INFORMATION FOR SEQ ID :775:	,
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 185 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID :775:

	(xi) SEQUENCE DESCRIPTION: SEQ ID :771:	
•	GCCACCGCCG ACTCCAGGCA CTCACTCAAA CTCGATCTTC AACTCTGCAT	50
5	ACAAGCAGAA GCAATAAACC AATCTGATTT TCTTTTCAAT T	91
	(2) INFORMATION FOR SEQ ID :772:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 177 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :772:	
20	GCCTGCGCCG ANGCATTCCC TTTGACCTGA GTCTGCAGCA GGTCCCTTTT	50
	GCGCTTCCTT CCCCTCAGGT AGCCTCTCTC CCCCTGGGCC ACTCCCGGGG	100
25	GTGAGGGGGT TACCCCTTCC CAGTGTTTTT TATTTCCGTG GGGCTCACCC	150
	CAAAGTATTA AAAGCAACTT TGCAATT	177
30	(2) INFORMATION FOR SEQ ID :773:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 151 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :773:	
40		5.0

	CTGCGGACCA GGATGCAGTG CCAGGCATGG GAGTCATTGC CCACATCACC	150
	GAGAAGGACA AAATCACCAC CAGGACACTG AAGGCCCGAA TGGACTCGCC	200
5	CTGCTCCCAG AGCCCACTTT TTT	223
	(2) INFORMATION FOR SEQ ID :769:	
	(i) SEQUENCE CUNDACTEDISTICS.	
10	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 37 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(b) TOPOLOGI: Timear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :769:	
	GCCAGCGCCG AAAACACACA CTTTGCTTCT TACCTGC	37
20	(2) INFORMATION FOR SEQ ID :770:	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 37 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) TOPOLOGI: Tinear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :770:	
	GCCAGCGCCG AAAACACACA CTCTGCTTCT TACCTGC	37
35	(2) INFORMATION FOR SEQ ID :771:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 91 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
• =	(D) TOPOLOGY: linear	



(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :766:	
	GCCAGCGCCG ACGATGCCCA GAATCCAGGA CTTTGCCTAT CACTCTCCCC	50
	AACAACCTAG ACGCGAAAAC AGAATAAACT TCACCCAG	88
10	(2) INFORMATION FOR SEQ ID :767:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 91 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :767:	
	GCCACCGCCG ACTCCAGGCA CTCACTCAAA CTTGATCTTC AACTCTGCAT	50
25	ACAAGCAGAA GCAATAAACC AATCTGATTT TCTTTTCAAT T	91
	(2) INFORMATION FOR SEQ ID :768:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 223 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :768:	
	GCCTGCGCCG AACAAATATA CAGAATGCGC GAGTCCCTCT GGAAGCCCAA	50
40	CATCATION CATCACCTGT TTGAAACCAT CTCCCAAGCC ATGCTGAATG	100



	CGGATAGTCA CACTCCCTGC CGA	223
	(2) INFORMATION FOR SEQ ID :764:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	(b) Torobodi. Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :764:	
15	GCCAGCGCCG AGGTTGCATA TTTCTAGGCG CAGGTATATG ATTGCCATAT	50
	AATAAAAATC TGAAAACACC	70
20	(2) INFORMATION FOR SEQ ID :765:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 118 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	•	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :765:	
	GCCAGCGCCG ACCGCCCCAA AAATACTCCC ACCGGGATCA GGGCGATTAA	50
	TGAAGACTCA ACGGGGACTA AAAAGGGGCC CCAAAAAAAA CCAAACCACC	100
35	TTTCTACGTA CCGTATAG	118
	(2) INFORMATION FOR SEQ ID :766:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 88 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	



382

(xi) SEQUENCE DESCRIPTION: SEQ ID :751: GCCAGCGCCG AGGTCGCATA TTTCTAGGCG CAGGTATATG ATTGCCATAT 50 71 5 AATAAAAACT GAAAACACCC C (2) INFORMATION FOR SEQ ID :762: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 88 base pairs 10 (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 15 (xi) SEQUENCE DESCRIPTION: SEQ ID :762: GCCTGCGCCG ACGATGACCA GAATCCAGAA CTTTGCCTAT CACTCTCCCC 50 20 88 AACAACCTAG ACGCGAAAAC AGAATAAACT TCACCCAG (2) INFORMATION FOR SEQ ID :763: (i) SEQUENCE CHARACTERISTICS: 25 (A) LENGTH: 223 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 30 (xi) SEQUENCE DESCRIPTION: SEQ ID: 763: 50 GCCTGCGCCG ACAAACAAAA CCTGGAGGCC ATTCTGCACA GCCTGCCCGA 35 GAACTGTGCC AGCTGGCGGT GAGGGCTGCC CAGATCCCCG GCACACACTC 100 CCCCACCTGC TGTTTACATG ACCCAGGGGG CGCACACTAC CCCACAGGCG 150 40

CGCCCATACA GACATTCCCC GGAGCCGGCT GCTGCGAACT CGACCCCGTG

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :759:	
	GCCACACCAG ACTTTCGACC CCCCAACCCT CTGAGGAAGA TGGGGGCAAG	50
10	AAGATCACGC TCCCCGCCTG TTCCCCCGCC GCTTTTCTCC TCTCTTCTCT	100
	CTTCGCTCTC AGCTCCCCCT GTCCCCTCAG CTCCAGACGT AGGGGAGGGG	150
	TTGCCACAGA CTCCCTGCTT GAAGCCTGCC CTTGCCTAAG ATGCTGGTAA	200
15	TGGCCATGGT ACCCCCTTCC GGGCATCTAC TCTGGTTTTC GGCCA	245
	(2) INFORMATION FOR SEQ ID :760:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 68 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
25		
	(x1) SEQUENCE DESCRIPTION: SEQ ID :760:	
30	GCCAGCGCCG AGGTCGCATA TTTCTAGGCG CAGGTATATG ACTGCCATAT	50
	AACAAAAACC, NTGAAAAC	68
	(2) INFORMATION FOR SEQ ID :761:	
35	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 71 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
4.0		

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 64 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :757:	
	GCCTGCGCCG ACCACCCCTT CCTTTTTTTT ATCCAGCACA GCAAGACCAA	50
	CAGGATTCTC TTCC	64
15	(2) INFORMATION FOR SEQ ID :758:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 243 base pairs(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :758:	
	GCCÁGCACCA AGTGACGCCA AAGCCCCTAG TTGACTCTAA CAGCCCCGTG	50
30	GGCGCGCGG AGGCCGAGCG CTCTAGGGTC TACCTATCAG CGCAATCGTT	100
	TAGCGCTTTT TCAATGGGGC AGGGCAGGAA GCAGGCGGGA CCAGGCAGCC	150
	AGTTCTCAAA GGCTGCGGGG CCGACTAGAG GCCACAGCCC CTCACCCCTA	200
35	GACGTCGACA ACCAGAACTG ACGTGCGACC TCCCGGGCGC CGA	243
	(2) INFORMATION FOR SEQ ID :759:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 245 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

	CCGGGCTGCG CCGAGCCATG GAACCATGGG AAGACCTTCA CTT	243
	(2) INFORMATION FOR SEQ ID :755:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :755:	
15	GCCAGCGCCG AGGTTGCATA TTTCTAGGCG CAGGCATATG ATTGCCATAT	50
	AACAAAAACC TGAAAGCATC A	73
20	(2) INFORMATION FOR SEQ ID :756:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 243 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :756:	
30	GCCACCGCCG AGTGACGCCA AAGCCCTTGG TTGACTCTAA CAGCCCCGTG	50
	GGCGCGCGG AGGCCGGGCG CTCTAGGGTC TACCTATCAG CGCAATCGTT	100
35	TAGTGCTTTT TCAGTGGGGC GGGGCGGGAA GCAGGCGGGA CCAGGCAGCC	150
	AGTTCTCAAA GGCTGCGGGG CCGACTAGAG GCCACAGCCC CTCACCCCTA	. 200
40	GACGTCGCCA ACCAGAACTG ACGCGCGACC TCCTGGGCGC TGA	243
	(2) INFORMATION FOR SEQ ID :757:	

	GCCAGCACCG AGGTTGCATA TTTCTAGGCG CAGGCATATG ATTGCCATAT	50
	AATAAAAAA TGAAAACACC CC	72
5	(2) INFORMATION FOR SEQ ID :753:	
	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 122 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :753:	
	GCCAGCGCCG AGGACACCAA GAAGGTTTTG GACAGCGTGG GCATCGAGGC	50
•	GGACAACAAC CAGCTCAACA AGGCCATTAG TGAGCTGAAT GAAAAAAACA	100
20	TTGAAGACGT TATTGNCCAG GA	122
	(2) INFORMATION FOR SEQ ID :754:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH 243 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :754:	
35	GCCACCGCCG ACTGAAACTG CACCGACCCC CCCTCGAGGA CCTGCTCTTA	50
	GGTTCAGAAG CAAACCTCAC GTGCACACTG ACCGACCTAA GAGACGCCTC	100
	AGGCGCCACC TTCACCTGGA CACCCTCAAG CGGGAAGAGC ACTGTTCAAG	150
40	GACCACCTAA GCATGACCTC TACGGCTGCT ACAGCGTGTC CAGTGCCCTG	200

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :750:	
	GCCTACGCCG AAAACCCCTT CCTTTTTTTC ATCCAGAAAA GCAAGAGAAA	50
10	AAGGATTCTC TTCTGCGGCC GCCAACGCGT CGGAGAT	87
10	(2) INFORMATION FOR SEQ ID :751:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 170 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :751:	
	GCCTCCGCCG ATTCGTGACC AAGAAGGCTC TATGCATTCA GGCTTTCCAG	50
25	GAGACTCAAA AGCTGAAGAA GCAAAGAAGA GCCTTAAAGG CTGCAGCAGC	100
	AGTCCNAAAA ACAAGCAGAG CAGAGGAACC CAGACAGCCC TGCCAAAGCC	150
	ATGCCAAAGA CACTCAAAGA	170
30	(2) INFORMATION FOR SEQ ID :752:	
	·	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 72 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40.

(xi) SEQUENCE DESCRIPTION: SEQ ID :752:



(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :748:	
	GCCAGCACCG ATGAATTCCC TTTGACCCAA GTCTGCAGCA GGTCCCTTTT	50
	GCGCTTCCTT CCCCTCAGGC AGCCTCTTTC CCCCTGGGCC ACTCCCGGGG	100
10	GCGAGGGGC TACCCCTTTC CCAGGCTTTT TATTCCCGTG GGGCTCACCC	150
	CAAAGCATTA AAAGCAGCTT TGCAATTC	178
15	(2) INFORMATION FOR SEQ ID :749:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 235 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :749:	
	GCCAGCACCG AAAAGCCAAG ACTTCATGAA CTACACAGGT CTTACCATTG	50
	ACCTAAGATC AATCTGAACT ATCTTAGCCC AGTCAGGGAG CTCTATTCCT	100
30	AGAAAGGCAT CTTTCGCCAG TGGATTCGCC CCAAGGTTGA GGCCGCCATT	150
	GGAAGACGAA AAATTGCACT CCCTTGGCGC AGACAAACAC CAGTTCCCAT	200
35	TGGCGCTGCT GCCTATAACA AACACTTTTT TTTTT	235
	(2) INFORMATION FOR SEQ ID :750:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs	·

(B) TYPE: nucleic acid(C) STRANDEDNESS: double



	GCCAGCTCCG AGGTTGTATA TTTCCAGGTG CAGATATATG ATTGCCATAT	50
	AATAAAAATC TGAAAACATC CCAC	74
5	(2) INFORMATION FOR SEQ ID :746:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 88 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :746:	
	GCCTGCGCCG ACGATGCCCA GAATCCAGAA CTTTGTCTAT CACTCTCCCC	50
20	AACAACCTAG ATGTGAAAAC AGGATAAACT TCACCCAG	88
20	(2) INFORMATION FOR SEQ ID :747:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 88 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :747:	
	GCCTGCGCCG ACGATGCCCA GAATCCAGAA CTTTGTCTAT CACTCTCCCC	50
35	AACAACCTAG ATGTGAAAAC AGAATAAACT TCACCCAG	88
	(2) INFORMATION FOR SEQ ID :748:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 178 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 64 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	TO THE ATTENDED TO THE ATTENDE TO THE ATTENDED TO THE ATTENDED TO THE ATTENDED TO THE ATTENDED	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :743:	
10	GCCTGCGCCG ACCACCCCTT CCTTTTCTTG ATCTAGCACA GCAAGACCAA	50
	CGGGATTCTC TTCT	64
15	(2) INFORMATION FOR SEQ ID :744:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 69 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	TO THE PROPERTY OF THE PROPERT	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :744:	
	GCCAGCGCCG AGGTTGTATA TTTCTAGGTG CAGGTATATG ATTGCCATAT	50
	AATAAAATT TGAAAACAT	69
30		
	(2) INFORMATION FOR SEQ ID :745:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 74 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(I) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :745:	



·	CCGGCATGTT CTTGTCACAC TGGGTGAGAA GATGACAGAG GAAGA	245
	(2) INFORMATION FOR SEQ ID :741:	
· 5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 88 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :741:	
15	GCCTGCGCCG ACGATGCCCA GAATCCAGAA CTTCGTCTAT CACTCTCCCC	50
	AACAACCTAG ATGTGAAAAC AGAATAAACT TCACCCAG	88
20	(2) INFORMATION FOR SEQ ID :742:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 242 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :742:	
	GCCGGAGCCA AAGCAAGCCA GAAGACTAAC AGTACTAACT ACAAATATTC	50
	GCACCTCGAT CGCAGTACCC AGGTTCTCAC GTAGCTGAAG NAATGTATTA	100
35	CTCTGATAGT CTTCATTCGG ATAGACTAAA GCGTGTGCTG ACTGGAGATG	150
	AGGTAAAGAA GATATGTATG CAACGTCCAG TCAAAACGGA TGGCAAGGTT	200
40	CGAGTCATGT CATATACCTT GCTGGATTAA TGGATGTCAT TA	242
70	(2) INFORMATION FOR SEQ ID :743:	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :738:	
	GCCAGCGCCG ACAATGCCCA GAATCCAGAA CTTTGCCTAT CACTCTCCCC	50
5	AACAACCTAG ACGCGAAAAC AGAATAAACT TCACCCAG	88
	(2) INFORMATION FOR SEQ ID :739:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 95 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :739:	
20	GCCAGCGCCG AGATCCTGGC GGCCTACCGC CCCCGGTGCA CCCCCGCTAG	50
	CGCCCCACCC CGCGTCTACC GCCCAATAAA GGCATCTTTG CCGGG	95
	(2) INFORMATION FOR SEQ ID :740:	
25		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 245 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :740:	
35	(XI) SEGODNEE BEBONII IION DEG ED TOTAL	
33	GCCACCCGA AGACGTATCA AGGCCCTCGA ACAACCCCGA GAGCTGATGA	50
	GATGAATGAG AAGATGCCGA ACTTTGCGCA CTCCATGCCC CTGCTGCAGA	100
	GAIGMAIGAG AMGAIGCCGA ACITIGCGCA CICCAIGCGC CICCIONG.	
40	CAGTAACCAA GAGCAAGGAC CAGGGCACCC ATGAGGATTA TGTCGAAGGA	150
	CTTCGGGTGT TTGACAAGGA AGGAAATGGC ACCGTCATGG GTGCTGAAAT	200

	(2) INFORMATION FOR SEQ ID :736:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 127 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	·
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :736:	
	GCCAGCGCCG ACCACAGGGC CTTGAATCCT TTTTTGTTTT CAACAGTCTT	50
15	GCTGAATTAA GCAGAAAGGG CCTTGAATCC TGGCCTAGAA TTTGGGCAGA	100
	TACAGCATTA ACAAAACCGC GCATCTC	127
20	(2) INFORMATION FOR SEQ ID :737:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :737:	
30	GCCTGCGCCG ACCACCCCTT CCTTTTCTTC ATCCAGCACA GCAAGACCAA	50
	CAGGATTCTC TTCT	64
35	(2) INFORMATION FOR SEQ ID :738:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 88 base pairs	
40	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	• •	



(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :733:	
	GCCAGCGCCG AGATCCTGGC GGCCTACCGG CCCTCAGTGC ACCCCCGCTA	. 50
	GCGCCCCACC CCGCGTCTAT CGCCCAATAA AGGCATCTTT GCCGGG	96
10	(2) INFORMATION FOR SEQ ID :734:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 96 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :734:	
	GCCAGCGCCG AGATCCTGGC GGCCTACCAG CCCTCCGTGC ACCCCCGCTA	50
25	GCGCCCCACC CCGCGTCTAT CGCCCAATAA AGGCATCTTT GCCGGG	96
	(2) INFORMATION FOR SEQ ID :735:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 97 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :735:	
	GCCAGCGCCG AGATCCTGGC GGCCTACCAG CTCCTCAGTG CACCCCCACT	50
40	AGCACCCAC CCCGCATCTA TCGCCCAATA AAGGCATCTT TGCCGGG	97



•	GCCTGCGCCG ACCACCCCTT CCTTTCTTC ATCCAGCACA GCAAGACCAA	50
	CAGGATTCTC TTCT	64
5	(2) INFORMATION FOR SEQ ID :731:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 96 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :731:	
	GCCAGCGCCG AGACCCTGGC GGCCTACCGG CCCCCGTGC ACCCCCGCTA	50
20	GCGCCCCACC CCGCGTCTAT CGCCCAATAA AGGCATCTTT GCCGGG	96
20	(2) INFORMATION FOR SEQ ID :732:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 84 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :732:	
•	GCCTGCGCCG ACCACCCCTT CCTTTTCTTC ATCCAGCACA GCAAGACCAA	50
35	CAGGATTCTC TTCTGCAGCC GCCACCGCGT CGGA	84
	(2) INFORMATION FOR SEQ ID :733:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 96 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :728:	
5	GCCAGCGCCG AAAAGCCAAG ACTTCATGAA CTACACAGGT CTTACCATTG	50
	ACCTAAGATC AATCTAAACT ATCTTAGCCC AGTCAGGGAG CTCTATTCCT	100
	AGGAAGGCAT CTTTCGCCAG TGGATTCGCC TCAAGGTCGA GGCCGCCACT	150
10	GGAAGACGAA AAATAGAACT CCCTTAGAGT AGACAA	186
	(2) INFORMATION FOR SEQ ID :729:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 167 base pairs	
10	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :729:	
	GCCAGCGCCG AGGTTGCATA TTCTAGGCGC AGGTATATGA TTGCCATATA	50
25	ATAAAAACCT GAAAACATCC CACCCGGGAA AAAAAAAAAA	100
	AAAAACACCC CCCCCCACA AAAAACTCAA ATTCCCCTCC CAAAAAACCC	150
30	CCTCAAAATC AAAAAAC	167
	(2) INFORMATION FOR SEQ ID :730:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 64 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

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(xi) SEQUENCE DESCRIPTION: SEQ ID :730:

	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
J	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :726:	
10	CCGTGTACTA TTAGCCATGG TCAACCCCAC CGTGTTCTTC GACATTGCCG	50
	TCGACGGGAG CCCTTGGCGC GCGTCTCCTT TGAGCTGTTT GCAGACAAGG	100
•	TCCCAAAGAC AGCAGAAAAT TTTCGTGCTC TGAGCACTGG AGAGAAAGGA	150
15	TTTGGTTATA AGG	163
	(2) INFORMATION FOR SEQ ID :727:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 105 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
25	••	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :727:	
30	GAGGGCGAGT TCGAGGAGGA GGCTGAGGAG GAGGTGGCCT AGAGCCTTCA	50
	GTCACTGGGG AAAGCAGGGA AGCAGTGTGA ACTCTTTATT CACTCCCAGC	100
	CTGTT	105
35	(2) INFORMATION FOR SEQ ID :728:	
10	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 186 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	



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(2) INFORMATION	FOR	SEQ	ID	:724:
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	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 164 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :724:	
	(XI) SEQUENCE DESCRIPTION. SEQ IS	
	GTGTACTATT AGCCATGGTC AACCCCACCG TGTTCTTCGA CATTGCCGTC	50
15	GACGGGCGAG CCCTTGGCGC GCGTCCTTTG AGCTGTTTGC AGACAAGGTC	100
	CCAAAGACAG CAGAAAAATT TTTCGTGCTC TGAGCACTGG AGAGAAAGGA	150
		164
20	TTTGGTTATA AGGG	164
20	(2) INFORMATION FOR SEQ ID :725:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 110 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :725:	
	GTGAGAAGCT GCAGCGGTGA CCTGGAGGCT GCGATGTGGA GGTGGAGGAC	50
	GIGAGAAGCI GCAGCGGIGA CCIGGAGCCI CCCATCICAN COICCACC	, ,
35	ACACCCTCAA CCGTTGCTCC TGTAGCTTCC GAGTCCTGGT GGTGTCGGCC	100
	AAGTTCAGTA	110

(2) INFORMATION FOR SEQ ID :726

40

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 163 base pairs



(D) TOPOLOGY: linear

.5	(xi) SEQUENCE DESCRIPTION: SEQ ID :721:	
	GACCACCCT TCCTTTCTT CATCCAGCAC AGCAAGACCA ACGGGATTCT	50
	CTTCT	55
10	(2) INFORMATION FOR SEQ ID :722:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 92 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :722:	
	GACTTCACGA ACTACACAGG TCTTACCATT GACCTAAGAT CAATCTGAAC	50
25	ATTCTTAGCC CAGTCAGGGA GCTCTGCTTC CTAGAAAGGC AT	92
	(2) INFORMATION FOR SEQ ID :723:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 55 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :723:	
	TATTTCTAGG TGCAGGTATA TGATTGCCAT ATAATAAAA TCTGAAAACA	50
40		
	TCCCC	55

•	ACAAGGTCCC AAAGACAGCA GAA	123
	(2) INFORMATION FOR SEQ ID :719:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 54 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :719:	
15	ACCACCCCTT CCTTTTCTTC ATCCAGCACA GCAAGACCAA CGGGATTCTC	50
	TTCT	54
20	(2) INFORMATION FOR SEQ ID :720:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 117 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :720:	
30	GACCACAGGG CCTTCAATCC TTTTTTGTTT TCAACAGTCT TGCTGAATTA	50
	AGCAGAAAGG GCCTTGAATC CTGGCCTGGA ATTTGGGCAG ATATAGCATT	100
35	AATAAAACTG TGCACTC	117
	(2) INFORMATION FOR SEQ ID :721:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 55 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :716:	
	GCCGAGGAGA ACCCCCGCTC CCTGAGGAGG ACCTGTCCAA ACTCTTCAAA	50
5	CCACCACAGC CGCCTGCCAG GATGGACTCG CTGCTCATTG CAGGCCAGAT	100
	AA	102
10	(2) INFORMATION FOR SEQ ID :717:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :717:	
20	AGCGAATGTA ACCCGGCCTT GGACGACCCG ACGCCGGACT ACATGAACCT	50
	GCTGGGCATG ATCTTCAGCA TGTGCGGCCT CATGCTTAAG CTGAAGTGGT	100
25	GTGCTTGGGA TACGCTGTCT ACAG	124
	(2) INFORMATION FOR SEQ ID :718:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 123 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :718:	
40	GGAAAACCGT GTACTATTAG CCATGGTCAA CCCCACCGTG TTCTTCGACA	50
40	TTGCCGTCGA CGGGAGCCCT TGGCGCGCGT CTCCTTTGAG CTGTTTGCAG	100



	362	
	(2) INFORMATION FOR SEQ ID :714:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 90 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :714:	
	CTTGGGAGAT AACAGTTTCC CCTCTCCCTC CCCCTGCAGA TTTCCAGCGC	50
15	CCGGACCAAG GCCAAGTAAG CCTCTACAAA CCTAGCATTT	90
	(2) INFORMATION FOR SEQ ID :715:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 69 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :715:	
20	CCAGCGCCGA GGTTGTATAT TTGTAGGTGC AGGCACACGA CCAGGACACA	50
30	ACAAAAATCT GAAAACATC	69
	(2) INFORMATION FOR SEQ ID :716:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 102 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear



	(xi) SEQUENCE DESCRIPTION: SEQ ID :711:	•
	CCAGCCAAAG ATTCCCAGGC TTTCTTGTCT CAGCAACTTT CCCATCTTCT	50
5	CTCTCTTGGA TGATGTTTGC CGTCAGCATT CACCAAATAA ACTTGCTCTC	100
	TGGG	104
	(2) INFORMATION FOR SEQ ID :712:	
10	(2) INFORMATION FOR SEQ ID :/IZ:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 68 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
13	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :712:	
20	CTAGAAATAG ACCCACAATT TAGAGACAAT CTATACTAGA TTTATCTCCT	50
	TTGTTTTAG TTGAAGGC	68
25	(2) INFORMATION FOR SEQ ID :713:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 127 base pairs	
	(B) TYPE: nucleic acid	
-30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :713:	
	AGCGAATGTA AGGGGGCCTT GGACGACCCG ACGCCGGACT ACATGAACCT	50
40	GCTGGGCATG ATCTTCAGCA TGTGCGGCCT CATGCTTAAG CTGAAGTGGT	100
	GTGCTTGGGT CGCTGTCTAC TGCTCCT	127



2)	INFORMATION	FOR	SEQ	ΙĐ	: 709

	(2) INFORMATION FOR SEQ ID . 709.	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :709:	
	GCCAGCACCG AGCAACCTGG GTCCAAATAA AAACTAAACT	50
15	G	51
	(2) INFORMATION FOR SEQ ID :710:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 64 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :710:	
30	GCCTGCGCCG ACCACCCCTT CCTTTTCTTC ATCCAGCACA GCAAGACCAA CAGGATTCTC TTCT	50 64
35	(2) INFORMATION FOR SEQ ID :711:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 104 base pairs(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	



	TCAGGGAGT	209
	(2) INFORMATION FOR SEQ ID :707:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 170 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	(5) 10102011 12.1011	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :707:	
15	GCCAGCACCG AGATGACGAG CTTTCTGCTG CCACCCACAA GCAGAGGGAC	50
	TCGGAGATCA CGCAGCAGAA GCAGAAAAAG GCAAACAAGA AGAAGGAGGA	100
20	ACCCAAGCAG CTTTGCGGCT TCACGCCCAA CCCTCTCGCC CTTCACCTGT	150
	GAGCCTGGAG CCAGTCCCAC	170
	(2) INFORMATION FOR SEQ ID :708:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 160 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :708:	
35	GCCACCGTCG AGGATTCAGC AGCCTCCCCC TTGAGCCCCC TCACTTCCCG	50
	ACGTTCCGTT TCCCCCTGCC CGCCTTTTTC CGCCACCACC GCCGCCGCCT	100
40	TCTGCAGGCC GTTTCCACCG AGGAAAAGGA ATCGTATTGT ATACCCGCTA	150
	CCCACA A CCT	1.00

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(i) SEQUENCE CHARACTERISTICS:

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

(A) LENGTH: 262 base pairs

	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :705:	
10	GCTTGATGCC TGCGCCGAAC AAACATACAG AATGCGGCGA GTCCCTCTGG	50
	ACGCCCAACA CGGATCCGGA TCACCTATCT GAAACCATCT CCCAAGCCAT	100
15	GCTGAATGCT GCGGACCAGG ATGCAGTGCC AGGCATGGGA GCCATTGCCC	150
	ACATCACCGA GAAGGACAAA ATCACCACCA GGACACTGAA GGCCCGAATG	200
	GACTAACCCT GTTCCCAGAG CCCACTTTTT TTCTTTTTCA GAAATAAAAC	250
20	AGCCTGTCTT TC	262
	(2) INFORMATION FOR SEQ ID :706:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 209 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :706:	
35	GCCAGCACCG ACCTAGCCTA AGCCGTCTAA AACCACCTGA GCCCCTGAGG	50
	AAACCTGTGG TCACACTGGG CCCTCCTCAG GAACTCTCCC TGCGCAGAGG	100
40	CGTGTCTTAG CACTGCCCCC CTCCCTAGCC CCTTATTTGG CGGCGGAAGC	150
40	GGCCTCCACC CCTTCCCTGT TTGCAAACAC TCTGCGGAGA AAAGAGGACT	200

	(xi) SEQUENCE DESCRIPTION: SEQ ID :702:	
-	GCCTGCGCCG AGCACAAGAC AATGATGAAC ATTCTAAAAA AAAAGAATGA	50
5	CGCACATTTT AATAAAGCAC AGCACAAACT GTTCTTTCC	89
	(2) INFORMATION FOR SEQ ID :703:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 96 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :703:	
20	GCCAGCGCCG AGATCCTGGC GGCCTACCGC CCCCCGCCGC ACCCCCGCTA	50
	GCGCCCCACC CCGCGTCTAT CGCCCAATAA AGGCATCTTT GTCGGG	96
25	(2) INFORMATION FOR SEQ ID :704:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 123 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
. -	(xi) SEQUENCE DESCRIPTION: SEQ ID :704:	
35	GCCTGCGCCG AACAAACATA CAGAACGCAA CGAGTCCCTC TGAAGGCCCA	50
	ACACGGATCC GAATCACCTG GCCCGAAACC ACCTACCTAG CCATGATGAA	100
40	TGCTGAGGAC CCAGATGCAG TAC	123
	(2) INFORMATION FOR SEQ ID :705:	

	GGAGGCTCAA AAGAGGACAC AAAAGTGAAC AGAATGATCT TCCTACGCAC	100
	AACACAAACA TCAGTTAATG CTCCATCCAC GCTGCTTAAA GAGCATTCCT	150
5	GTCCTAGCAA AATGGGCAAG TCCCTCTACC CCCCACCCTC ACTTGGCATG	200
	CTTACATTAA TAGCTAAAGT CAATCCTGTA ATGAAATAAA GCAAATGGCA	250
	GCTGTCTAGT AGCCTCCACT ACCGCAAATA TC	282
10	(2) INFORMATION FOR SEQ ID :701:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 255 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :701:	
	(XI) SEQUENCE BESCHILLION DEE CONTRACTOR	
	GCCTGCGCCG AACAAACGCA CGGAATGAGC GAGTCCCTCT GGGAGCCCAA	50
25	CATGGATCCG AATCACCTGT TTGAAACCAT CTCCCAAGCC ATGCTGAATG	100
	CTGCGGACCA GGATGCAGTG CCAGGCATGG GAGTCATTGC CCACATCACC	150
	CTGCGGACCA GGATGCAGTG CCAGGCATGG GAGTCATTGC CCACATCAGC	200
	GAGAAGGACA AAATCACCAC CAGGACACTG AAGGCCCGAA TGGACTAACC	200
30		
	CTGTTCCCAG AGCCCACTTT TCCCCTATTT TGGAAATAAA ATAGCCTGTC	250
	TTTCG	255
	(2) INFORMATION FOR SEQ ID :702:	
35	(2) INFORMATION FOR SEQ ID . 702.	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 89 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

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	GGCTTCTGTG AGCACCGTGC TGACCTCCAA ACACCGTTAA GCTGGAGCCT	100
	,	150
	CGGTAGCCGT TCCTCCTGCC CACTGGACTC CCAACAGGCC CTCCTCCCCT	150
5	CCTTGCACCG GCCCTTCCTG GTCTTTGAAT AAAGTCTAAG CGGGCAGC	198
	(2) INFORMATION FOR SEQ ID :699:	
10	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 230 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :699:	
	GCCAGCACCG ACAGCAACAA AAATGTTCCC ACAGAGATCA GGATGACTTG	50
20	CTGAAGCTCA GTGGAGGCTA AAAAGAGGAC ACAAAAGTGA ACAGAATGAC	100
	CTTCCTACGC ACAACACAAA CACCAGTTAA TGCTCCATCC ACGCTGCTTA	150
25	AAGAGCATTC CTGTCCTAGC AAAATGGGCA AGTCCCTCTA CCCCCCACCC	200
	TTAGCCGGCA TGCTTACATT AATAGCTAGA	230
30	(2) INFORMATION FOR SEQ ID :700:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 282 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :700:	

AGCAACAAAA ATGTTTCCAC GGAGATCAGG ATGACTTGCT GAAGCTCAGT

	CCAACAACAC AGACGGCGAA AACAAAACAA ACTTAAACCT AG	92
	(2) INFORMATION FOR SEQ ID :697:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 314 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :697:	
15	GCCAGCACCG AGGCCTAGGG TAGAGCAGAC TGTGGCTTTA CCTCGGTGTC	50
	CTACCAGCAA GGGGTCCTAT CTACCACCAT CCTCTATGAG ATCCTGCTAG	100
20	GGAAGGCCAC CCTGCATGCT GCGTTGGTCA GCACCCTTGC GCTGATGGCC	150
20	ATAGTCAAGA GAAAGGATTT CTGAAGGCAG CCCTAGAAGC GGAGTTAGGA	200
	GCTTCTAACC CGTCATGGTT TAAATACACA CCCTTTTTTG GACAGCGCTT	250
25	CTGAAGAGCT GCTCTTACCT CTCTGCATCC CAATAGATAT CCCCCTATGC	- 300
	GCATGCGTAC CTGT	314
30	(2) INFORMATION FOR SEQ ID :698:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 198 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :698:	
40	THE PROPERTY OF THE PROPERTY O	5.0

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	GGATGCAGTG TCAGGCATGG GAGTCATTGC CCACATCATC GAGAAGGACA	200
	AAATCACCAC CAGGACACTG AAGGCCCGAA TGGACTÁACC CTGTTCCCAG	250
5	AGCCCACTTT TTTTTTTTT TTGGAAATAA AATAGCCTAT CTTTCG	296
	(2) INFORMATION FOR SEQ ID :695:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 211 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :695:	
20	GCCAGCACCG ACCTAGCCTA AGCCGTCTAG AACCACCTAA GCCCCTAAGG	50
	AAACCTGTGG TCACACTGGG CCCTCCTCAG GAACTCTCCC TGCGCAGAGG	100
	CGTGTCTTAG CACTAACCTC CTCCCTAGCC CCTTATTTGG TGGCAGAAGT	150
25	GGCCTCCACC CCTTCACCGT TTAAAAATAC TCCGTGGAGA AAAGAAAGCT	200
	TNAAGGAGTA G	211
30	(2) INFORMATION FOR SEQ ID :696:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 92 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :696:	
40	GCCTGCACCG ACAATGCCCA GAACTCCAGA ACTTCACCTA TCACGTATCC	50

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 329 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :693:	
10	TCTGCTGCCG CCCGCAAGCA GAGGGACTCG GAGATCATGC AGGGGAAGCA	50
	GAAAAAGGCA AACAAGAAGA AGGAGGAACC CAAGCAGCTT TGCGGCTTCG	100
15	CGTCCAACCC TCTTGCCCTT CACCTACGCG CCTAGAGCCA GTCCCACCAC	150
	GCTCGCGTTT CCTCCTGTAG CGCTCACAGG CCCCAGCACC GATGGCATTC	200
	CCTTTGACCT AAGCCTACAG CAGGCCCCTT TTGTGCTTCC TTCCCCTCAG	250
20	GCAGCCTCTT TCCCCCTGGG CCACTCCCGG GGGTGAGGGG GTTGTCCTTC	300
	CCGATGCTTT TTGTTACCGT GGGGTTTGC	329
25	(2) INFORMATION FOR SEQ ID :694:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 296 base pairs	
30	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :694:	
	TCTGCTGCCG CCCGCAAGCA GAGGGACTCG GAGATCATGG CCTGCGCCGA	50
40	ACAAATGTAC GGAATGCGTG AGTCCCTCTG GGAGGCC	100
40	GATCACCTGT TTGAAACCAT CTCCCAAGCC ATGCTGAATG CTGCGGACCA	150

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	ACACAAATTC ACAAGTGNTC TCAAAAAACT C	81
	(2) INFORMATION FOR SEQ ID :691:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 217 base pairs	•
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :691:	
15	TTCCTAACCG ATCGAATGAA GGATTCAAAA TTAACCACTC CAAGGGGGGA	50
	TTGAAGGAAG AACCACTCTT AACGGACAAA AAGAAAGAAA GGGGAGGGAG	100
20	TAACAGGGAT ATGAGCTCTA GCCGCCCAAG CTAGCAATGG CAACCCTTCT	150
	GGGTCCCCTT TCAGCATGCG GAAGCTTTTC TTCGACTTCA CTCCATAAAC	200
	AGCTGACGCT CAAAAAG	217
25	(2) INFORMATION FOR SEQ ID :692:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 72 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :692:	
	CGGCCTTCTG GAAACCCATG AAAAAAAAA GTTCCGCACC TCCAAGGGGA	50
40	GAAGAGTAAG AGACAGCTTT CA	72
• •	(2) INFORMATION FOR SEO ID :693:	

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	GCCTCTCTCT GGGCAAGTTC ATGGCTTCTG TGAGCCCTTT NACTGACCTC	50
	CAGACACTGT TAGGCTGGAG CCTCGGTAGC CGTTCCTCCT GCCCACTGGA	100
5	CCTTCCAACA GGCCCTCCTC CCCTCCTTGA ACCGGCCCTT CCTGGCCTTT	150
	GANTAGAGTC TAAGCGAACG AC	172
	(2) INFORMATION FOR SEQ ID :689:	
10	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 200 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :689:	
20	GCCACCGCCG AGCTCACCCC TGCGGTGCAC GCCTTCCTTG GACAAGTTTT	50
	TGGCTTCTGC GAGCCTTTTA CTGACCTCCA AACGCTGTTA AGCCGGAGCC	100
25	TCGGTAGCCG TTCCTCCTGC CCACTGGACN TCCCAACGGG CCCTCCTCCC	150
	CTCCTTGAAC CAGCCCTTCC TGGCCTTTGA ATAAAGTTTA AGCGAGTAGC	200
30	(2) INFORMATION FOR SEQ ID :690:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 81 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :690:	
40	GCCACCGCCG AGCAGCAGCT TACAGCCAGG GCAGCTTTGA ATGCGGCCCA	50

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :686:	
	ACATGCCAAA GAAAGCGTGC ATATTAGCCT ATAGAACCAC AGTAATCACA	50
10	CTAGAGAAAT TCCACTGCTA CAATAAAATG TAATCGGAAG CATCTTTACT	100
	TATAAA	106
15	(2) INFORMATION FOR SEQ ID :687:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 97 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :687:	
	CAGATTTTTT TCAATTCTCC ACCCGCCAAA AGGGGAAGGG CTTTTCCCCA	50
	GAGAAAAGGA AAGGGGGAAAA AACCCAACCC AAAACCA	97
30	· · · · · · · · · · · · · · · · · · ·	
	(2) INFORMATION FOR SEQ ID :688:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 172 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :688:	

(xi) SEQUENCE DESCRIPTION: SEQ ID :684: 50 AGCACCGAGG CGCTCAAGGT CCTGGGGAAC CCCAAGAGCG ACGAGACGAA 5 CGCGAAGGCG CTGGACTTTG AGCACTTTCT GCCCATGCTG CAGACAGTGG 100 CCAAGAACAA GGACCAGGGC ACCTATGAGG ATTATGCCGA AGGACTTCGG 150 GCGCTTGACA AGGAAGGAAA TGGCACCGTC ATGGGCGCTG AAACCCGGCA 200 10 TGCTCTTGCC ACACTGGGCG AGAAGACGAC AGAGGAAGAA GCAGAGACGC 250 TGGCGGCAGG GCATGAGGAC AGCAATGGTT GCATCAACTA CGAAGCATTT 300 15 307 GTGAGGC (2) INFORMATION FOR SEQ ID :685: (i) SEQUENCE CHARACTERISTICS: 20 (A) LENGTH: 174 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID :685: CCATCTCAAG GCGATCCATG GAAAGCTTCC TGGGGAACGT ATGCTAGCAG 50 30 100 AGCTTCTCCC CGTGAATCAC ATGCCGGAGA TCCCACTCTT AGCTGGCAAA 150 TGAATCCGAA TTGACACAGC AGCCCCATAA GCATCAGCCC TGTAGAGTGA 35 174 GGAGCCATCT CTAGCGGGCC CTTC (2) INFORMATION FOR SEQ ID :686: (i) SEQUENCE CHARACTERISTICS: 40 (A) LENGTH: 106 base pairs

(B) TYPE: nucleic acid

·	GCCACCGCCG AGGAAAACCG TGCACTGTTA GCCATGATCA ACCCCACCGT	50
	GCTCTTCGAC ATTGACATCG ACGGCTGAGC CCTTGACCTA GTCTCCTTTG	100
5	AGCTGTTTGC AGACAAGGTC CCAAAGACAG CAGAAAATTT TCGTGCTCTA	150
	AGCACTGGAG AGAAAGGATT TGGTTATAAG GGTTCCTGCT TTCACAGAAT	200
10	TATTCCAGGG TTTATGCGCC AGGGTGGTGA CTTCACACGC CATAATGGCA	250
	CTGGTGGCAA GTCCATCCAT GGGGAGAAAT TTGAAGACGA GAACTTCATC	300
	CTAAAGCATA CGGGCCCTGG CATCTTGCCC ATGGCAAATG CTGATCCTGA	350
15	TACA	354
	(2) INFORMATION FOR SEQ ID :683:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 148 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :683:	
30	CCTCTCCGTG AGGACAGGGC AGTCTTGGTG CGCAGCCCCT CTCCTCTG	50
	TCCCCTGACA CTCCACAGTG CGCCTGCAAC CCAGGCGGCC TTATCCGCGC	100
	AGTGGCGGCA GTTCAGAAAT AAAGGGCCCA TTTGCGGGAT GCCGCATT	148
35	(2) INFORMATION FOR SEQ ID :684:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 307 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	

	CAGCCTGGGA TCCGGTGACG GCCTAGGCTG AGGCTGGGCC AGGAGTCCCA	200
	AAGGTCAGTG ACAGTTTCTC AGAAGGGGCC CAGCGTCCAC CTCTCTCCCA	250
5	GGACCAGACA CCCCTTCCAG GCTCCCCCAC CCCCCTACGG GCTC	294
	(2) INFORMATION FOR SEQ ID :681:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 268 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :681:	
	CCGCCAAGTG ACACCAAAGC CCTGGTTGAC TTTGACAGCC CCGTGGGCGC	50
20	GCGGGAGGCC GGGCACTCTA GGGTCTACCT ACCAGTGCAA TCGTTTAGCG	100
	CTTTTTCAGT GGGGCAGGGC AGGAAGCAGG CGGGACCAGG CAGCCAGTTC	150
25	TCAAAGGCTG CGGGGCCAAC TAGAGGCCAC AGCCCCTCAC CCCTAGACAC	200
	TGCCAACCAG AACTGACACG CGACCTCCTG GGCGCTGACG CCATTAAAAC	250
	CAACGTTGGC GCCCGGCG	268
30	(2) INFORMATION FOR SEQ ID :682:	
35	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 354 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	·

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(xi) SEQUENCE DESCRIPTION: SEQ ID :682:

	(2) INFORMATION FOR SEQ ID :679:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 253 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :679:	
	GCCTGCCCCG ACACGAAGAT GACCCTCGAC AGCCGCCGGG CGCTGATCAC	5C
15	CAGGGAAGGC AAAGGCATAG GCCAGCACCG ATGAATTCCC TTTGACCTAA	100
	GTCTGCAGCA GGCCCCTTTT GCGCTTCCTT CCCCTCAGGC AGCCTCTCTC	150
20	CCCCCGGCC ACTCCCGGGG GCGAGGGGGT TACCCCTTTC CCAGTGCTTT	200
	TTATTCCCGC GGGGCTCACC CCAAAGCATT AAAAGCAGCT TTGCAATTCC	250
	TTG	253
25	(2) INFORMATION FOR SEQ ID :680:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 294 base pairs	
30	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :680:	
	GCCAGCGCCG AGGCTTCTCC TAGGGCTGCT CCTGGGCCTA GCTCTTACAG	50
40	GCTCGTCCCC CAGGCCTGCC CTTCTCCACT GCCCCCTCCC GTGCCTGGGC	100
	CCACACACCC TTCAGGAAGG GGGAGCACTG AGAAGCACAG CACAGGGGCT	150

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	ACCAGGGAAG GCAAAGGCAT AGGACTTCCA CACAGTCCAG ACACTGCACG	100
	CTGACAAGCG CCTCCGCGGC GGCTGCGAGC CGGACTCAGG CGGATCTTGA	150
· 5	CAGCCTTGCC CGCGAGTGCC CGGGGATAGA ACCCGTGCGC GTGGACCTAG	200
	GTGACTGGGA GGCCACCAAG CAGGCACTGG GCAGCGTGGG CCCCGTGGAC	250
10	CTGCTGGAGA ACAACACCAC CGTCGCCCTG CCGCAGCCCT TCCAGGAGGT	300
	CACCAAGGAG GCCTTCGACA GATCCTTTGA GGTGAGCTTG CGTGCGATCA	350
	TCCAGGTGCT GTAGA	365
15	(2) INFORMATION FOR SEQ ID :678:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 366 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :678:	
	GCCTGCCCG ACACGAAGAT GACCCTCGAC AGCCGCCGGG CGCTGATCAC	50
30	CAGGGAAGGC AAAGGCATAG GACTTCTGCA CGGTCCAGAC CCATGTACGC	100
30	GACGGGCGCC TNCGCGGTGG CTGCGAGCCG GATTCAGGCA GATCTTGACA	150
	GCCTTGCCCG CGAGTGCCCG GGGATAGAAC CCGTGTGCGT GGACCTNGGG	200
35	TGACTGGGAG GCCACCAAGC AGGCACTGGG GTAGCATGGG CCCCGCGGAC	250
	CTGCCGGAGA ACAATACCAC CGCCGCCTNT GCCGCAGTCT TTCCCGGAGG	300
40	TCACCAAGGA GGCCTNTTGA TAGATCTTTT GAGGTGAGCT TGCGTGCGGT	350

CATCTAGGTG CTGTAG

CCGTAACTGG CGGCTATCTG TTCATAACAA ACAAACCATA GCATATTTAC ACCGCATCAC ATCGAGTGAT TATAGAAAATC CATACACACA CCGATTGCAT AAAAATCTTTT TTTAGGAAAA AAACAC (2) INFORMATION FOR SEQ ID :676: (i) SEQUENCE CHARACTERISTICS: (i) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 20 (xi) SEQUENCE DESCRIPTION: SEQ ID :676: GCCAGCGCCG ACGCCCAGAG AATACAGTAC TTAGGGGTTA CACACAACAG 5 CCGTAACTGG CGGCTATCTG CTCATAACAA ACAAACCACA GCATATCTAT ACCGTATCAC ATCGAGTGAT TATAGAAATC CACAGAGAGA C (2) INFORMATION FOR SEQ ID :677: 30 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 365 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 35 (Xi) SEQUENCE DESCRIPTION: SEQ ID :677: 40 CTCTGAACAG ACACGAACCT CCCCCTGGT CACAGAGAGA CACACAACAG CACAGAGAGA CACACGAGAGAGA		(wi) produce procedition: 250 in :0/2:	•
ACCGCATCAC ATCGAGTGAT TATAGAAATC CATACACACA CCGATTGCAT AAAATCTTTT TTTAGGAAAA AAACAC (2) INFORMATION FOR SEQ ID :676: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :676: GCCAGCGCCG ACGCCCAGAG AATACAGTAC TTAGGGGTTA CACACAACAG (C) CCGTAACTGG CGGCTATCTG CTCATAACAA ACAAACCACA GCATATCTAT ACCCGTATCAC ATCGAGTGAT TATAGAAATC CACAGAGAGA C (2) INFORMATION FOR SEQ ID :677: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 365 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (C) STRANDEDNESS: double (Xi) SEQUENCE DESCRIPTION: SEQ ID :677:		GCCAGCGCCG ACACCCAGAG ACTACAGTAC TTAGGGGTTA CACACAACAG	5
AAAATCTTTT TTTAGGAAAA AAACAC (2) INFORMATION FOR SEQ ID :676: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID :676: GCCAGCGCCG ACGCCCAGAG AATACAGTAC TTAGGGGTTA CACACAACAG 25 CCGTAACTGG CGGCTATCTG CTCATAACAA ACAAACCACA GCATATCTAT ACCGTATCAC ATCGAGTGAT TATAGAAATC CACAGAGAGA C (2) INFORMATION FOR SEQ ID :677: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 365 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (C) STRANDEDNESS: double (Xi) SEQUENCE DESCRIPTION: SEQ ID :677:	5	CCGTAACTGG CGGCTATCTG TTCATAACAA ACAAACCATA GCATATTTAC	10
(2) INFORMATION FOR SEQ ID :676: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :676: GCCAGCGCCG ACGCCCAGAG AATACAGTAC TTAGGGGTTA CACACAACAG 5 CCGTAACTGG CGGCTATCTG CTCATAACAA ACAAAACCACA GCATATCTAT 10 ACCGTATCAC ATCGAGTGAT TATAGAAATC CACAGAGAGA C 14 (2) INFORMATION FOR SEQ ID :677: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 365 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 35 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :677:		ACCGCATCAC ATCGAGTGAT TATAGAAATC CATACACACA CCGATTGCAT	. 15
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 20 (xi) SEQUENCE DESCRIPTION: SEQ ID:676: GCCAGCGCCG ACGCCCAGAG AATACAGTAC TTAGGGGTTA CACACAACAG 5 CCGTAACTGG CGGCTATCTG CTCATAACAA ACAAACCACA GCATATCTAT ACCGTATCAC ATCGAGTGAT TATAGAAATC CACAGAGAGA C (2) INFORMATION FOR SEQ ID:677: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 365 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 35 (xi) SEQUENCE DESCRIPTION: SEQ ID:677:	10	AAAATCTTTT TTTAGGAAAA AAACAC	17
(A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 20 (xi) SEQUENCE DESCRIPTION: SEQ ID :676: GCCAGCGCCG ACGCCCAGAG AATACAGTAC TTAGGGGTTA CACACAACAG 5 25 CCGTAACTGG CGGCTATCTG CTCATAACAA ACAAACCACA GCATATCTAT 10 ACCGTATCAC ATCGAGTGAT TATAGAAATC CACAGAGAGA C 14 (2) INFORMATION FOR SEQ ID :677: (A) LENGTH: 365 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 35 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :677:		(2) INFORMATION FOR SEQ ID :676:	
(E) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID :676: GCCAGCGCCG ACGCCCAGAG AATACAGTAC TTAGGGGTTA CACACAACAG CCGTAACTGG CGGCTATCTG CTCATAACAA ACAAACCACA GCATATCTAT ACCGTATCAC ATCGAGTGAT TATAGAAATC CACAGAGAGA C (2) INFORMATION FOR SEQ ID :677: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 365 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (C) STRANDEDNESS: double (Xi) SEQUENCE DESCRIPTION: SEQ ID :677:		(i) SEQUENCE CHARACTERISTICS:	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear 20 (xi) SEQUENCE DESCRIPTION: SEQ ID :676: GCCAGCGCCG ACGCCCAGAG AATACAGTAC TTAGGGGTTA CACACAACAG 5 25 CCGTAACTGG CGGCTATCTG CTCATAACAA ACAAACCACA GCATATCTAT 10 ACCGTATCAC ATCGAGTGAT TATAGAAATC CACAGAGAGA C 14 (2) INFORMATION FOR SEQ ID :677: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 365 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 35 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :677:		(A) LENGTH: 141 base pairs	
(D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID :676: GCCAGCGCCG ACGCCCAGAG AATACAGTAC TTAGGGGTTA CACACAACAG 5 CCGTAACTGG CGGCTATCTG CTCATAACAA ACAAACCACA GCATATCTAT 10 ACCGTATCAC ATCGAGTGAT TATAGAAATC CACAGAGAGA C 14 (2) INFORMATION FOR SEQ ID :677: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 365 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (C) STRANDEDNESS: double (Xi) SEQUENCE DESCRIPTION: SEQ ID :677:	15	(B) TYPE: nucleic acid	
(xi) SEQUENCE DESCRIPTION: SEQ ID:676: GCCAGCGCCG ACGCCCAGAG AATACAGTAC TTAGGGGTTA CACACAACAG CCGTAACTGG CGGCTATCTG CTCATAACAA ACAAACCACA GCATATCTAT ACCGTATCAC ATCGAGTGAT TATAGAAATC CACAGAGAGA C (2) INFORMATION FOR SEQ ID:677: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 365 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID:677:		(C) STRANDEDNESS: double	
(xi) SEQUENCE DESCRIPTION: SEQ ID :676: GCCAGCGCCG ACGCCCAGAG AATACAGTAC TTAGGGGTTA CACACAACAG 5 CCGTAACTGG CGGCTATCTG CTCATAACAA ACAAACCACA GCATATCTAT 10 ACCGTATCAC ATCGAGTGAT TATAGAAATC CACAGAGAGA C 14 (2) INFORMATION FOR SEQ ID :677: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 365 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 35 (Xi) SEQUENCE DESCRIPTION: SEQ ID :677:		(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID :676: GCCAGCGCCG ACGCCCAGAG AATACAGTAC TTAGGGGTTA CACACAACAG 5 CCGTAACTGG CGGCTATCTG CTCATAACAA ACAAACCACA GCATATCTAT 10 ACCGTATCAC ATCGAGTGAT TATAGAAATC CACAGAGAGA C 14 (2) INFORMATION FOR SEQ ID :677: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 365 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 35 (Xi) SEQUENCE DESCRIPTION: SEQ ID :677:	20		
25 CCGTAACTGG CGGCTATCTG CTCATAACAA ACAAACCACA GCATATCTAT 10 ACCGTATCAC ATCGAGTGAT TATAGAAATC CACAGAGAGA C 14 (2) INFORMATION FOR SEQ ID :677: 30 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 365 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 35 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :677:	20	(xi) SEQUENCE DESCRIPTION: SEQ ID :676:	
ACCGTATCAC ATCGAGTGAT TATAGAAATC CACAGAGAGA C (2) INFORMATION FOR SEQ ID :677: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 365 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :677:		GCCAGCGCCG ACGCCCAGAG AATACAGTAC TTAGGGGTTA CACACAACAG	50
(2) INFORMATION FOR SEQ ID :677: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 365 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :677:	25	CCGTAACTGG CGGCTATCTG CTCATAACAA ACAAACCACA GCATATCTAT	100
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 365 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 35 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :677:		ACCGTATCAC ATCGAGTGAT TATAGAAATC CACAGAGAGA C	141
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 365 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID:677:	30	(2) INFORMATION FOR SEQ ID :677:	
(A) LENGTH: 365 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 35 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID:677:		(i) SEQUENCE CHARACTERISTICS:	
(B) TYPE: nucleic acid (C) STRANDEDNESS: double 35 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :677:			
(C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :677:			
(xi) SEQUENCE DESCRIPTION: SEQ ID :677:			
40	35	(D) TOPOLOGY: linear	
		(xi) SEQUENCE DESCRIPTION: SEQ ID :677:	
	40	CTCTGAACAG ACACGAAGCT GCCCCTCGTA CAGCCACTCG GGCGCTGACC	50

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(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
כ		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :673:	
	THE TAXABLE VICENTIAN COMES COMES CONCERN CONCERN CONCERNS	50
10	GCCTGCGCCG ANGCATTCCC TTTGACCTGA GTCTGCAGCA GGTCCCTTTT	30
	GCGCTTCCTT CCCCTCAGGT AGCCTCTCTC CCCCTGGGCC ACTCCCGGGG	100
		150
	GTGAGGGGT TACCCCTTCC CAGTGTTTTT TATTTCCGTG GGGCTCACCC	150
15	CAAAGTATTA AAAGCAACTT TGCAATT	177
	(2) INFORMATION FOR SEQ ID :674:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 77 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :674:	
30	GCCTGCGCCG AGCACAAGAC AATGACGAAC ATTTTAAAAA AAAAGAATGA	50
	CGCACATTTT AATAAAGCAC AGCACAA	77
	(2) INFORMATION FOR SEQ ID :675:	
35	(2, 2 2	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 176 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :670:	
	GCCAGCGCCG AAAACACACA CTTTGCTTCT TACCTGC	37
10	(2) INFORMATION FOR SEQ ID :671:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 37 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :671:	
20	GCCAGCGCCG AAAACACACA CTCTGCTTCT TACCTGC	37
	(2) INFORMATION FOR SEQ ID :672:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 59 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :672:	
35	GCCACCGCCG ACTCCAGGCA CTCACTCAAA CTCGATCTTC AACTCTGCAT	50
	ACAAGCAGA	59
40	(2) INFORMATION FOR SEQ ID :673:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 177 base pairs	

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 59 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :668:	
10	·	
	GCCACCGCCG ACTCCAGGCA CTCACTCAAA CTTGATCTTC AACTCTGCAT	50
	ACAAGCAGA	59
15	(2) INFORMATION FOR SEQ ID :669:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 223 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :669:	
	GCCTGCGCCG AACAAATATA CAGAATGCGC GAGTCCCTCT GGAAGCCCAA	50
	CATGGATCCG GATCACCTGT TTGAAACCAT CTCCCAAGCC ATGCTGAATG	100
30		
	CTGCGGACCA GGATGCAGTG CCAGGCATGG GAGTCATTGC CCACATCACC	150
	GAGAAGGACA AAATCACCAC CAGGACACTG AAGGCCCGAA TGGACTCGCC	200
35	CTGCTCCCAG AGCCCACTTT TTT	223
	(2) INFORMATION FOR SEQ ID :670:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 37 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :665:	
-	GCCAGCGCCG AGGTTGCATA TTTCTAGGCG CAGGTATATG ATTGCCATAT	50
5	AATAAAATC TGAAAACACC	70
	(2) INFORMATION FOR SEQ ID :666:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 118 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
1.5	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :666:	
20	GCCAGCGCCG ACCGCCCCAA AAATACTCCC ACCGGGATCA GGGCGATTAA	50
	TGAAGACTCA ACGGGGACTA AAAAGGGGCC CCAAAAAAAA CCAAACCACC	100
25	TTTCTACGTA CCGTATAG	118
23	(2) INFORMATION FOR SEQ ID :667:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 88 base pairs	
30	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
3 3	(xi) SEQUENCE DESCRIPTION: SEQ ID :667:	
	GCCAGCGCCG ACGATGCCCA GAATCCAGGA CTTTGCCTAT CACTCTCCCC	50
40	AACAACCTAG ACGCGAAAAC AGAATAAACT TCACCCAG	88
	/3) INDODUNTOU DOD DO DO COO	

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :663:	
	GCCTGCGCCG ACGATGACCA GAATCCAGAA CTTTGCCTAT CACTCTCCCC	50
10		
	AACAACCTAG ACGCGAAAAC AGAATAAACT TCACCCAG	88
	(2) INFORMATION FOR SEQ ID :664:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 223 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :664:	
	(· · · · · · · · · · · · · · · · · · ·	
25	GCCTGCGCCG ACAAACAAAA CCTGGAGGCC ATTCTGCACA GCCTGCCCGA	50
	GAACTGTGCC AGCTGGCGGT GAGGGCTGCC CAGATCCCCG GCACACACTC	100
	CCCCACCTGC TGTTTACATG ACCCAGGGGG CGCACACTAC CCCACAGGCG	150
30		
	CGCCCATACA GACATTCCCC GGAGCCGGCT GCTGCGAACT CGACCCCGTG	200
	CGGATAGTCA CACTCCCTGC CGA	223
•		
35	(2) INFORMATION FOR SEQ ID :665:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 70 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	

	(2) INFORMATION FOR SEQ ID :661:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 245 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :661:	
	AGGCACTGAC CCCTGCCACC CCTCACTGCA TTAACTTCAG CCACGTCTCC	50
15	TCCTTCCTCT GCGCTTCCAG TGATAAGGGT ACTGTCCATA TCTTTGCTCT	100
	CAAGGATACC CGCCTCAACC GCCGCTCCGG CCTGGCTCGC GTGGGCAAGG	150
20	TGGGGCCTAT GATTGGGCAG TACGTGGACT CTCAGTGGAG CCTGGCGAGC	200
	TTCACTGTGC CTGCTGAGTC AGCTTGCATC TGCGCCTTCG GTGCG	245
	(2) INFORMATION FOR SEQ ID :662:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :662:	
35	GCCAGCGCCG AGGTCGCATA TTTCTAGGCG CAGGTATATG ATTGCCATAT	50
	AATAAAAACM TGAAAACACC CC	72
40	(2) INFORMATION FOR SEQ ID :663:	
•	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 88 base pairs	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :658:	
	CCGACCACCC CTTCCTTTTC TTCATCCAGC ACAGCAAGAC CAACGGGATT	50
5	CTCTTCTGCG GCCGCCACCG CGTGGA	76
	(2) INFORMATION FOR SEQ ID :659:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 68 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :659:	
20	GCCAGCGCCG AGGTCGCATA TTTCTAGGCG CAGGTATATG ACTGCCATAT	50
20	AACAAAACC NTGAAAAC	68
	(2) INFORMATION FOR SEQ ID :660:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 151 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :660:	
35	CCCAAACTTC TTTAAAAATC AAGTAATGTT TACAAGAAAG AATAAAATCT	50
	TAATCCTTTT CACTTTTAAA GACAATCAGA TAAGATTACC CACTGCGATT	100
	AAACACTGAT CAAACTCAGT TGTCCTTACG TTAGCATTAC TCTGTCATAG	150
40	С	151

	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :656:	
	CCACCCTTC CTTTTCTTCA TCCAGCACAG CAAGACCAAC GGGATTCTCT	50
10		
	TCTGCGGCCG CCACCGCGTG GA	72
	(2) INFORMATION FOR SEQ ID :657:	
	•	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 178 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :657:	
25	AGAGGGTTTT CTATATGTAA TTCTTTTATT CTGTAAAAGG TAACAAAATA	50
		50
	TACAGAACAA AAAAACTTTC CCTTTTTAAA ACTAATGTTA CAAATCTGTA	100
	TTATCACTTG TATATAAATA GTATATAGCT GATCATTAAT AAGGTGTATA	150
30	,	
	GTACAATGTA TTCTAAAACT GTTCCGCC	178
	(2) INFORMATION FOR SEQ ID :658:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 76 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	· · · · · · · · · · · · · · · · · ·	
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(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :654:	
• •	CCGCCTCAGA CTCTGGACCA GCCACTGTCC CAGAAGCCAG GCCGGGCAGT	50
10	GGCCTTCTCC ACTCCCCTCT GACTTCTCCA AGGGGCTCAG TGGCCAGTGC	100
	CCCCCAGGAG GCTCCACCCT CAACTCAACC CAAGCAAGAG GGACAGATGA	150
15	AAAACAAAAT CCAATCAGGG CGATAAATGG CGGGGGGTTT AATTTGGTTT	200
	CTGAGCGCAT AAAGCTAAGG AGGGGT	226
20	(2) INFORMATION FOR SEQ ID :655:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 167 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :655:	
30	TTAAAAAAT TCCCCCCTTT AATTGACCAA AGTAAAGCCA TGACATTTCA	50
	TTTGGTAACC TGTTTAGAAT TATAAAAATC ATTTCATTTG GCCCAGCCCA	100
35	TACGCCCAAG AGAAAACTTC CAGACTTTTC TGATGCCATC CAGTTTTGTT	150
	CTTACAAAAT GCATATT	167
40	(2) INFORMATION FOR SEQ ID :656:	
40	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 72 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :652:	
10	CCGACAGACG GTCATTGATT ACAACGGGGA ACGCACGCTG GATGGTTTTA	50
	AGAAATTCCT GGAGAGCGGT GGCCAGGATG GGGCAGGGGA TGATGACGAT	100
	CTCGAGGACC TGGAAGAAGC AGAGGAGCCA GACATGGAGG AAGACNATGA	150
15	TCAGAAAGCT GTGAAAGATG AACTGTAATA CGCAAAGCCA GACCCGGG	198
	(2) INFORMATION FOR SEQ ID :653:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 224 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :653:	
30	CCGAAAAGCC AAGACTTCAT GAACTACATA GGTCTTACCA TTGACCTAAG	50
	ATCAATCTGA ACTATCTTAG CCCAGTCAGG GAGCTCTGCT TCCTAGAAAG	100
	GCATCTTTCG CCAGTGGATT CGCCTCAAGG TTGAGGCCGC CATTGGAAGA	150
35	TGAAAAATTG CACTCCCTTG GTGTAGACAA TACCAGTTCC ATTGGTGTTG	200
	TTGCTATAAT AACACTTTTC TTTT	224
40	(2) INFORMATION FOR SEQ ID :654:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 226 base pairs	



	GGATTCTCTT CTGCGGCCGC CACCGCGTGG A	81
	(2) INFORMATION FOR SEQ ID :650:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 159 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :650:	
15	AGGAGENEEG ACAAAAGACA CATTGGAEET GTEAGETEET ETGTTTEACE	50
	AAGCAGACAC AATAACCTTA CCAACAAAGC AGAGTAAGCC AAGTGCCTCT	100
20	GTGTGACACC ACCGCATNNT GATGACGCAT AATAAAAATA TAACTAATTT	150
20	AGACTAGAG	159
	(2) INFORMATION FOR SEQ ID :651:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 78 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :651:	
	(XI) SEQUENCE DESCRIPTION: SEQ ID :031:	
35	CCGACCACCC CTTCCTTTTC TTCATCCAGC ACAGCAAGAC CAACGGGATT	50
	CTCTTCTGCG GCCGCCACCG CTGGAGCT	78
40	(2) INFORMATION FOR SEQ ID :652:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 198 base pairs

331

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :647:	
	CAAGACAATA GTCACATCAT CGCAGCCTTG TTCTTTCCGA AGGATAAAAT	50
10	GTCATTCAAG AATGGGGTGA GGTGGTTAGA GGGAGTAGGT ACT	93
10	(2) INFORMATION FOR SEQ ID :648:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 114 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :648:	
	CCCCTTTTG TCCCCACTGA GATGTATGAA GGTTTTGGTC TCCCTGGGAG	50
25	TGGGTGGAGG CAGCCAGGGC TTACCTGTAC ACTGACTTGA GACCAGTTGA	100
	AAAGTGCACA CCTT	114
-20	(2) INFORMATION FOR SEQ ID :649:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 81 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :649:	

CTGCNCCGAC CACCCCTTCC TTTTCTTCAT CCAGCACAGC AAGACCAACG

	(2) INFORMATION FOR SEQ ID :645:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 182 base pairs	
 5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :645:	
	CCACCACCG ATTCGTGACC AAGAAGGCTC TGTGCATTCG GGTTTTCCAG	50
15	GAGACTCAAA AGCCGAAGAA GCGAAGAAGA GCCTTAAAGG CTGCAGCAGC	100
	CAGAAAACA AGCAAAGGAG GAACCCAGAC AGCCCTGCAA AGCATACAAG	150
20	ACACTCAAGA CAGCAATTAA TCTGTCATCA TT	182
20	(2) INFORMATION FOR SEQ ID :646:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 66 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :646:	
	CCAGCGCCGA GGTTGTATAT TTCTAGGTGC AGGTATATGA TTGCCATATA	50
35	ATAAAAATCT GAAAAC	66
	(2) INFORMATION FOR SEQ ID :647:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 93 base pairs	
	(B) TYPE: nucleic acid	

(C) STRANDEDNESS: double

	(xi) SEQUENCE DESCRIPTION: SEQ ID :642:	
	AGAGGACAGA AAGGAACAGA ATGATCTTCC TACNCACAAC ACAAACGTCA	50
5	GTTAATGTTC CATCCATGCT GCTTAAA	77
	(2) INFORMATION FOR SEQ ID :643:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 127 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :643:	
	(XI) BEGENOE BESCHILIENT BEG ID 1045.	
20	CCAGCGCCGA GAGCAGCCC AGTAGCAGCN CATGGCCGGG TCCAACGCCT	50
	ACATCGACAA CCTTCATGGC GGACGGGACC TGTCAGGACN GGCCATCGTG	100
	GGCTACAAGG ACTCGCCCTC CGTCTGG	127
25	(2) INFORMATION FOR SEQ ID :644:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 116 base pairs	
30	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		,
	(xi) SEQUENCE DESCRIPTION: SEQ ID :644:	,
	GTAGCCAGAC CACAACACCG AGTTGTACCC AGATAGCTGG GATTGGAAGT	50
40	GAGGAGGTTT CTCACCCCAC AGATAACCCA AGACACAAAT GTGCAATTAA	100
	AAGTTTATTT TAGACC	116

	CGGGATGCAT GTGCAGGCAT GGAGTCATTG TCACATCA	138
	(2) INFORMATION FOR SEQ ID :640:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 80 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :640:	
15	CCGACCACCC CTTCCTTTC TTCGTCCATC CAGCACAGCA	50
	GATTCTCTTC TGCGGCCGCC ACCGCGTGGA	80
20	(2) INFORMATION FOR SEQ ID :641:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 100 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :641:	
30		
	AACTAAACTG TTACCTTCCC TCGCTCCACA GAAGAAGACA GCCAGCTTCA	50
	GGGGTCCCTG TTGCTGGCCA AGCCAGTGAG CCTGCTGGGA GGCTGGTCCA	100
35	(2) INFORMATION FOR SEQ ID :642:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

	(xi) SEQUENCE DESCRIPTION: SEQ ID :637:	
	CCGAGCACGA GACCCTGATG CACATTCTAA AATAAAAGAA TGATGCACAT	50
5	TTTAATAAAG CACAGCACAA	70
	(2) INFORMATION FOR SEQ ID :638:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 160 base pairs	•
	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) TOPOLOGI: Timear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :638:	
20	CCGAGCANAN TCTAACCCGG CCTTGGACGA CCCGACGCCG GACTACATGA	50
	ACCTGCTGGG CATGATCTTC AGCATGTGCG GCCTCATGCT TAAGCTGAAG	100
	TGGTGTGCTT GGGTCGCTGT CTACTGCTCC TTCATCAGCT TTGCCAACTC	150
25	TCGGAGCTCG	160
	(2) INFORMATION FOR SEQ ID :639:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 138 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :639:	
40	CCGAACAAAT GTACGGAATG TGTGAGTCCC TCTGGAGCCC AACATGGATC	50
40	CGGATCACCT GTTTGAAACC ATCTCCCAAG CCATGCTGAA TGCTGTGGGC	, 100

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 90 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :635:	
10	CCTGCNCCGA TGCACCCGCC ATCCAGCCTG TCCTTTGGAC CACGCCACCC	50
	CTCCAGCATG GTCACCGCCA TGGGTTAGAN CCCTGCTCGA	90
15	(2) INFORMATION FOR SEQ ID :636:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 101 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :636:	
	CAGGAGACAC AGACAATAGT CACTACATCA CAGCCTTGTT CTTTCCGAAG	50
30	GATAAAATGT CATTCAAGAA TGGGGTGAGG TGGTTAGAGG GACTAGGTAC	100
	T	101
	(2) INFORMATION FOR SEQ ID :637:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 70 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	AGAAAGGCAT CTTTCGCCAG TGGATTCGCC TCAAGGTTGA GGCCGCCATT	150
	GGAAGATGAA A	161
5	(2) INFORMATION FOR SEQ ID :633:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 97 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :633:	
	(-, <u>1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-</u>	
	CCTGCNCCGA CGATGCCCAG AATCCAGAAC TTTGTCTATC ACTCTCCCCA	50
20	ACAACCTAGA TGTGAAAACA GAATAAACTT CACCCAGAAA AACAAAC	97
	(2) INFORMATION FOR SEQ ID :634:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 178 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :634:	
	CCAGCNCCGA AGCATTGGAT GCTTGACAAA CTAACGGGTG TATTTGCACC	50
35	TCGTCCATCG ACAGGTCCCC AGAAGCTGAG GGAATGTCTT TCCTCTGATC	100
	TTCTTCCTCA GGAATAGACT CAAGTATGCG TTGACTGGAG ATGAGGTAAA	150
40	GAAGATATGT ATGCAACGTT CATTCAAA	178
	(2) INFORMATION FOR CRO ID . Car.	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :630:	
	CCAGCNCCGA AAAGCCAAGA CTTCATCAAC TACATAGGTC TTACCATTGA	50
5	CCTAAGATCA ATCTGAACTA TCTTAGCCCA GTCAGGGAGC TCTGCTTCCT	100
	AGAAAGGCAT CTTTCGCCAG TGGATTCGCC TCAAGGTTG	139
	(2) INFORMATION FOR SEQ ID :631:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 117 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :631:	
20	CCACCGCCC GAGCGAATGT AACCCGGCCT TGGACGACCC GACGCCGGAC	50
	TACATGAACC TGCTGGGCAT GATCTTCAGC ATGTNCNNCC TCATGCTTAA	100
	INCATORACE IGEIGGERI GRICITERGE AIGINENNES TENTESTILL.	200
25	GCTGAAGTGG TGTGCTT	117
	(2) INFORMATION FOR SEQ ID :632:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 161 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :632:	
	CCAGCNCCGA AAAGCCAAGA CTTCATGAAC TACATAGGTC TTACCATTGA	50
40		100

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 108 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	\cdot	
	·	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :628:	
10	AAAAGAAGTA GGTCGTGTCG TTCTGGTTGC CCTAAGAGAA GAAGANNNCG	50
	ARABARISTA GGTCGTGTCG TTCTGGTTGC CCTANGAGAN GAAGANNNCG	50
	GTGGCCACCT CGAGGTTAAG AGGGATATCA CTCAGCATAA TGTTAAGTGA	100
15	CCGGCAGC	108
	(2) INFORMATION FOR SEQ ID :629:	
••	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 95 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) IdroLogi: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :629:	
	TCGCACCACT AGAAANCACC GTGACTGAGA AGAATGATGT GACCTTCAGA	50
30		
	CTTGACCCNN GGACAATGNC AGCTCCCAAT GNCCGTCTAG TGGCA	95
	10	
	(2) INFORMATION FOR SEQ ID :630:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 139 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

·	(xi) SEQUENCE DESCRIPTION: SEC ID :625:		
	AACAGCACGG AGATTGCGTT TATATATCAG ACCAAGCTC	39	
5	(2) INFORMATION FOR SEQ ID :626:		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs		
10	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear		
15			
	(xi) SEQUENCE DESCRIPTION: SEQ ID :626:		
	CCAGCGCCGA GGTTGTATAT TTCTAGGTGC AGGTATATGA TTGCCATATA	50	
20	ATAAAAATCT GAAAACATCC CC	72	
	(2) INFORMATION FOR SEQ ID :627:		
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 153 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear		
30			
	(xi) SEQUENCE DESCRIPTION: SEQ ID :627:		
25	CCTCCGCCGG AGCTATCTGC ACTACATCCG CAAGTACAAC CGTCTTCGAG	50	
35	AAGCGCCACA AGAACATGTC TGTACACCTG TCCCCCTGCT TCAGGGACGT	100	
	CCAGATCGGT GACATCGTCA CAGTGGGCGA GTGCGGCCTC TAGACAAGAC	150	r
40	AGT	153	,
•	(2) INFORMATION FOR SEQ ID :628:		

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 112 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	•	
	(will grouping programmen, and the con-	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :623:	
	TTTATTGTAT CATGAGGCAT TGAAACATCT GAATAAATCA ATGTCTGGGC	50
		50
	GGTGAAGGCA GCTGCTTTCT CCTTCACTTC TTTGGGTTAC TAGAGCAACT	100
15	TGTCAGTAGA TT	112
	(2) INFORMATION FOR SEQ ID :624:	
20	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 119 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(b) TOPOLOGI: Timear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :624:	
	ACTCCTTCTG CCCCCGTTCT TCTAGTGAGA GGGGCGGACA AGGGGGCGGC	50
30		
	GAAAAGAGGA GAAAGGAGAG AAACAAGAGT CGAGGGGGAC AGGGGAGTCG	100
	<u>-</u>	
	AGGTCTGCAT CCCCTCCCC	119
35	(2) INFORMATION FOR SEQ ID :625:	
	(2) INFORMATION FOR SEQ ID :025:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 39 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	AGTCCGTACC CTCAGTAACA GTGTAGTAGC TCTTCCTGT	139
	(2) INFORMATION FOR SEQ ID :621:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 123 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :621:	
15	TTCAAAAACA ACTTTATTCA TGACACATAT TAANNNAAAA CCCCACCCCT	50
	GGAAATGAGC TAAAAAATA AACAAAATCC ACCTCCCACC TCCCTGNNCC	100
20	CACTTCCTCC CATGCCCTCC AAA	123
20	(2) INFORMATION FOR SEQ ID :622:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 173 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :622:	
	CACCCAAGAC CATCCTTTAT TGTAGTATTA GTTCATGGTA ACTGCATGAA	50
35	AAAACATTTC NNGAGGAATT TTCAATTTCC AGCTTAAAGA ACNNNCCCAC	100
	CAACATAACC AATTTATGAA ANNNAATTCA TTAAAAGGTA TAGAACCTCT	150
40	TGTNNNCATG ATGGCAAGGG ACA	173
40	(2) INFORMATION FOR SEQ ID :623:	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :618:	
_	TCTTCTTACT ACACTGGAAG TCTGAACTGG GTGCCTGTTA CCGTCGAGGG	50
5	TTACTGGCAG ATCACCGTGG ACAGCATCAC CATGAACGGA GAGGCCATCG	100
	CCTNCNCTGA GGNCNGCCAG GCCATTGTTG ACACCNNCAC CTCTCNNCTG	150
10	ANNNNCCCAA CCAGCCCCAT TNCCAACA	178
	(2) INFORMATION FOR SEQ ID :619:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 73 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :619:	
25	ACCACCCCTT CCTTTCTTC ATCCAGCACA GCAAGACCAA CGGGATTCTC	50
25	TTCTGCGGCC GCCACCGCGT GGA	73
	(2) INFORMATION FOR SEQ ID :620:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 139 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :620:	-
40	TGCCTTACAC ACTCAGGGAG ACCTCGGGTT GTACCTAGGC CTAGTGGACA	50
	AACTITGGTA GAGGGTTCGG TACGACTTAC GACACCTGGC CCTACGTCAT	100

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 137 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :616:	
10		
	TCTAACTGAT TTCAAAGCAA ACTCTCTCTT AATTAGGCTG CCTCTCCAGG	50
	GGAAATTTAG TGGCAGGGTC CCAGTGAGCC TGTAAGAAGT GTTCTACTCA	100
15	CCAGAGTCAC TACTCCAGGT TGAGGACATG AGGCAGG	137
	(2) INFORMATION FOR SEQ ID :617:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 139 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :617:	
٠	GCAGGGCAGT CTTGGTGTGC AGCCCCTCTC CTCTCTGTCC CCTGACACTC	50
30	CACAGTGTGC CTGCAACCCA AGTGGCCTTA TCCGTGCAGT GGTGGCAGTT	100
	CAGAAATAAA GGGCCCATTT GAGGGATGAC CGCATTCAC	139
35	(2) INFORMATION FOR SEQ ID :618:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 178 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :613:	
	TTGAAGCTGG GAGGCAGAGG TTGCAGCGTG CAGAGTCGTG CCACTGCACT	50
	CCTGGGCGCA CAGCGAGACT GTCTC	75
10	(2) INFORMATION FOR SEQ ID :614:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 25 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :614:	
	ACGGGATTCT CTTCTTCGGC CGCCA	25
25	(2) INFORMATION FOR SEQ ID :615:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 72 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :615:	
	GCAGTGTACT ATGTTCGCAT CTGTGAATAG CCACTGCACT CTAGCCTGGA	50
10	TAATATAGTG AGAACCCATC TC	72
	(2) INFORMATION FOR SEC. ID . C1C.	

	GGAATGTTAT CAAAAGCACA TTAAGTGGTC AAAGCCAGAT ACAGAAGAGT	150
	AGGTATGATT TTATAGGNAT AA	172
5	(2) INFORMATION FOR SEQ ID :611:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 51 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :611:	
	TCCACCTTAC AGACCTGATT TGGCTGCTTC TGACGTCTGT TTCCTAATCT	50
20	T	51
	(2) INFORMATION FOR SEQ ID :612:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 60 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :612:	
	CGCCTGAAAC TTTGAGGATA AACTTTTTCA AAAAAATAAA ACAGTATCTC	50
35	TTAATCACTG	60
	(2) INFORMATION FOR SEQ ID :613:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 75 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

	TTTCCTACAC ATAAAGTAGT GAGAACATCA TCCTATAACA GGGAACTGTG	100
	ATTATTTAAA AAACGCAGAA CTTATTTATT TGGCTTTAGA AATAACTGCA	150
· 5	TACAATGTCA TAAGTCGAAA AGAACTCAAA ATAA	184
	(2) INFORMATION FOR SEQ ID :609:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 191 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID:609:	
20	GGGGACAGCT NNNNNGTTGT TTTGGAGCCT GTTGACTTTG TATTCTCTGC	50
	CTGTGATTTT CNNTTCTAAA TGAAACTCCA TGTNNNAACC AGGACGAAGN	100
	TGAGAAGGAA AACGCCAAAT GCTTTGGTTA TTAGAGNTTA ATAGGNAAGC	150
25	TCTGTTACAC TAGGTGTAGA GTTCCAGAAT GTTCTTTTGT T	191
	(2) INFORMATION FOR SEQ ID :610:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 172 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :610:	
40	GCAACTGTGC AAACATCCAT CAGTGTGGAG GAATGGTAAA CTTGGTACAT	50
	GCATGCANTN GNNNCATATT TTTGTGGTTA AGATNNTGAT GTATAGGCAT	100

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314 AATAAAGCAT TCTCACAACC TTTGTTGGGT CAATGATTCC TTTTTACCAC 50 ANNTACAGAA TCTCCACCAT AGCATCATAA CCAACTCTGA GGAACTTCGC 100 ATAATTCTTA ACTACAAAGA TCCTTCAACA CCCGCATTCT TACAATGTCA 150 5 TCGCCGGAAT TTTGAGTGTT CTTTCAATAA CCTACANTA 189 (2) INFORMATION FOR SEQ ID :607: 10 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 171 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 15 (xi) SEQUENCE DESCRIPTION: SEQ ID :607: 20 GGAAAAGNTC ATTACATAAG CACCAAGNCA TTGATTATGA TCCACCGGAA 50 GAGCTCGTAT TTATCCTTTG CTTTNATNTG AGACCAAGCT AGCCCTGAGT 100 150 AATTTTANNT GGTTCCTAAA ACATATGGCT TATCGTACTC TAAGAAAAAT 25 171 GCCTTACGCA CATTCCTTTN T (2) INFORMATION FOR SEQ ID :608: 30 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 184 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID :608:

(D) TOPOLOGY: linear

GGAAAAGTNC GCATATAGCG TGCNATAATA CTACGNCTAA GGAGAAACAA

	(xi) SEQUENCE DESCRIPTION: SEQ ID :604:	
. 5	GACATCTGAT CATCTCACTG GACGCCACAG GGGCAAGAGG GTGGTTTTCC	50
	TGAAGCAGCT GGCTAGTGGC TTATTACTTG TGACTGGACC TCTGGTCTCA	100
10	ATCGAGTTCC TCTACGAGAA CACACCAGAA ATTTGTCATT GCCACTTCAA	150
	CAAAATCGAT ATCAGCAATG TAAAAATCCC AAACATCTTA CTGATGCTTA	200
	CTTCAAGAAG AAGAGCTGC	219
15	(2) INFORMATION FOR SEQ ID :605:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 104 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :605:	
25	AGCGAACACG AGCACAGCGA GCGCACAGAG AGCAGCAGGG AGGGCAGCCA	50
	CCGCCGGGAC GCCGGCAGGG GCACGAGGAGCG GACACCCGNG	100
30	NNGA	104
	(2) INFORMATION FOR SEQ ID :606:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 189 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID :606:

	(xi) SEQUENCE DESCRIPTION: SEQ ID :602:	
	GGAAGAGAAC ACATACACGA GGACCAGTAC CTGATGAGGA CAAGAGAGAT	50
· 5	GGGAANNNGC TGTGGAATTC CTTTCGGCAC CCTGGATGTT AACCCCTGCT	100
	CAGGAAAGGG TGCATCTGTC TTCATCATGC CTCTCTCCC TCCTCCA	150
	GCCACCTCCC AAAGGCAGAG CTGCCGCAAC CTGCCTGGCC ATGTGGTGGC	200
10	AAGTACCCAG TAGGAG	216
	(2) INFORMATION FOR SEQ ID :603:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 213 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :603:	
25	GAAAAAACAA TCATGACAGC AACTCTCCTA ACCACAAAAA TCACATATGT	50
	TATCTTTCTT TCAGGACTAA TAATTAATAT TTAAGAGGAA AGCACATCAA	100
30	TTTCTAGGGC CCTTCTTGGG GAAAGGTTCA TATAATTTAG CATACATACA	150
	TATTCAGTGA ATGCATTCAT ATATTACTAT ATAAACACTC TCAGCTACAA	200
	TGGTAATATA ATG	213
35	(2) INFORMATION FOR SEQ ID :604:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 219 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :600:	
	ACAGTGTGTG CCCTGTCAGC TCCGCAAATT GGCAGTCACT ACGTTTGTGC	. 50
10	CCCCTGTAAC CTTGTGATCT TCACTGCCAC TAGCGATGAA GTCTTCATTA	100
10	TGGCCTC	107
	(2) INFORMATION FOR SEQ ID :601:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 173 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :601:	
25	ACTGCTAGTG AAATTCACAT GACTCACAAT TCCCTTTAGC CAATGTTACC	50
	GAAGTCAGTG TCAAGAAAAC TTAACAGAAA AAAAAAAGCA CAGAGTGAGT	100
30	TCCTACCATA AAAATCCAGG CTGCCCTGTT TCCTAGCTCT AATATAAGCC	150
	ATTTTCTTTC CTTAGTGTAC CAA	173
	(2) INFORMATION FOR SEQ ID :602:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 216 base pairs	•
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double (D) TOPOLOGY: linear 5 (xi) SEQUENCE DESCRIPTION: SEQ ID :598: ACAAAACGCA GATATAAAAA AGTTACAAAG ATTTTTAGAT TTTCATTCAC 50 10 AAAAAAAGTC ATTCACATTT TACACTATAC ACGTTATGAT ATAATACAGG 100 AAAGTATTAT GTGCATTGTA AGAGAAGGAA AATAGAACTA CTAGATCACA 150 CGTGTTGTTC TGTGCTCTAA AATACCTAAA GGTGGATTCA TTTAATGCAA 200 15 210 CACCAGGGAC (2) INFORMATION FOR SEQ ID :599: 20 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID :599: 30 AAAGGAGTTG AGTACTGTAA ACGCAGAGCT ACATAGAAAA AACGGGCTTC 50 100 AAAAATCTGC ACAGAGGTTT GCTTGAGAAT TTAGCTACAC AAATATGTGT 116 35 AGAAGTGAAA AAAAAA (2) INFORMATION FOR SEQ ID :600: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs 40 (B) TYPE: nucleic acid (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :596:	
	GACAAACTGT TGACACCCGG AGGCCTAAAC GAGGATTTCA GCTTCCATTA	50
10	TGCCCAACTC CAGTCCAACA TCATTGAGGC GATTAATGAG CTGCTAGTGG	100
10	AGCTGGAAGG GACAATGGAG AACATTGCAG CCCAGGCTCT GGAGCACATT	150
	CACTCCAATG AGGTGATCAT GACCATTGGC TTCTCCCGAA CAGTAGAGGC	200
15	CTTCCTCAAA GAGGCTGCCC GAAAGAGGAA ATTCCATGTC ATTGTAGCAG	250
	(2) INFORMATION FOR SEQ ID :597:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 225 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :597:	
30	CTGCCAAATA CTTTCTTCAC CAACTCATGA GGAGAGGGAA CATGCTGAGA	50
30	AACTGATGAA GCTGCAGAAC CAACGAGGTG GCCGAATCTT CCTTCAGGAT	100
	ATCAAGAAAC CAGACTGTGA TGACTGGGAG AGCGGGCTGA ATGCAATGAG	150
35	TGTGCATTAC ATTTGGAAAA GATGTGAATC AGTCACTACT GGAACTGCAC	200
	AAACTGGCCA CTGACAAAA TGACC	225
10	(2) INFORMATION FOR SEQ ID :598:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 210 base pairs	

÷	(xi) SEQUENCE DESCRIPTION: SEQ ID :594:	
	GACCCTARCA ATATGTACAA AAATATAAAA TGTAAATAAA AAATACAAAC	50
· 5	AAATTTCCTT TTTAAAGTAC TTTTAAGAAA AAAAGCAGGG CCTTGGAAGT	100
	TTTGGTTCTT TTTTCCTCCC CTGTTGCAAA TTCTCATGGT TTGGGTTGGG	150
	TGGTGGAGAG CGCGTGTCAT CTGCGGGTGC CTGCCCACGT GGGCGGGCGG	200
10	CTCTCTACTC GAAGG	215
	(2) INFORMATION FOR SEQ ID :595:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 272 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :595:	
25	GGGGCTGGTT TGGTCATCCG AGATCATTAA AAATGGCTGA CCCTAACAAT	50
	ATGTACAAAA ATATAAAATG TAAATAAAAA ATACAAACAA ATTTCCTTTT	100
30	TAAAGTACTT TTAAGAAAAA AAGCAGGGCC TTGGAAGTTT TGGTTCTTTT	150
30	TTCCTCCCCT GTTGCAAATT CTCATGGTTT GGGTTGGGTG GTGGAGAGCG	200
	CGTGTCATCT GCGGGTGGCA CTGCCACGGT GGGCGGGCGG GCTCTCTACT	250
35	CGAAGGTGAC CACGTTTAGA TT	272
	(2) INFORMATION FOR SEQ ID :596:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 250 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	CATGTTCCTT CTATGANCTN CGTGGNATAT AGGCATATTT ATTAATGCTA	300
	TTTANGGCNT NNGTGCTTTG TAATGATTCG NCNTTAGGTG AAGGGNTACT	350
5	TTTNTNNTNC TTCNTAGTAG ATTNGNTTNN NTCTTTTTAA GAGGANTCNA	400
	NTTTCATGNG TAANCATCAT CTTTT	425
10	(2) INFORMATION FOR SEQ ID :593:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 258 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :593:	
20		
	CGCTGCATGC GTCAGCGCNA CGCGACGACA GCGCGCGCGA CGCGCGCGAC	50
	GCACAAANA AATGCATGCC AACACGAANA TATGTGCACA CAAACGCAAA	100
25	CGCGTGTGAA CACATGCGCG CNNCGCGCNC GCGATNCAAA GCTGAAATGT	150
	CONTROLL CONTROL CONTROL CONTROLL CONTROL CONTRO	150
	GCNNGNCNGT CGTGNGCGNA AATGTGAAAT GAACAAACAA CAATGAATGA	200
30	ATGAATGTGA AAAAGAGNGN GNTTGAAAAT TNTANAGNNC CCCCCCNTNA	250
30	ANCAAAAG	
		258
	(2) INFORMATION FOR SEQ ID :594:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 215 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

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(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 247 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :591:	
10		
	ATTCGCCCNN TAAGTAAGTC GTNATTANAC GCGACGNCTA CTACTGAGAC	50
		• • • •
	NCGCATGCGC TCTCTCTACA CTAAAGCTCG TCGCTNGNTN ACTTGCGNGN	100
15	NAAAAAACC CCCTGGGNNC GCTTTTCACC CCCAAACTTT CAAATTCCGC	150
15	NAMAMARACE CECIGOGNIC GETTIONES COSTELICITI CHEMITTOGO	
	CCCTTTNGGC NANGCCCAAC CANNCCCCCC CCCTTTTTNC CGNCCCANNC	200
	TINGGNCNTA ANNATINAGN CGGNANGNNN GGGCCCCCGG CCAACCC	247
20	(2) INFORMATION FOR SEQ ID :592:	
	(2) INFORMATION FOR SEQ ID .392.	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 425 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	. (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :592:	
	GGAGGGGAGT AGAGGAAATT TTCATTCTGG AAAAAAATGC ATACTGTTTG	50
35	ATATATTACT CNTCATGCTT TCCACAGATA TTATACACAG ATATTATATT	100
35	AIMIMITACI CNICAIGCII ICCACAGATA ITATACACAG ATATTATATI	100
	CCANGGATTA CGTTGCAATG TCTTCAAAAA TAGANAATTC ATTTTATATT	150

TCTNGATGAA ATATAATAGT ANCTNNGCTA CTTTTGGGAA TGTGACAAAA

TACTATGATG ATTACAACTC ATTAAAGCAT AAATNTGCAT GATTTAACTN

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 184 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :589:	
	GAGAGAGAC ACTCCCCTCC ATCCCAGCAC TATGCACAGT TCACGGCTCA	50
	TATGCAAAGT GGAAGACACG TGGGACAAGA GCAAAGCACA AGTGACACAT	100
15	GGTCCCTCTC TAACACCTCA GCACACCAAC CCTGACGCTC CCATCACAGA	150
	TGCTGNTCAT TCTTNCACGG NCCCCTTTTA TAAT	184
20	(2) INFORMATION FOR SEQ ID :590:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 243 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :590:	
30	GGGGGCCCGC CGTNCACNCC CCCACACTCT TGGTAGGCAA TGCTTGTCCC	50
35	NATATAGTTG NNGTCCTATC GAGTGACACT CTCGTTCATG GATANGGTGN	100
	GTAAAACCCN TNGTNGCATC CNNATTGGGN GCANTGNGCC TNTCCCCTTN	150
	AANGGTTTTT GCNTNCACTC GACCTNGGGA GGATTCAATG NACNNNCTNG	200
	CANTGGNCAA GCNTTGNTTG CNNGNATTGA GAACCCNCCA ATT	243
40	(2) INFORMATION FOR SEO ID :591:	

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AGGTCAAGTC TACAGCTGGA GACACCCACT TGGGNGNANG AAGATTTTGN 50 ACAACCGAAT NGTCAACCAT TTTAATTGCT GAGTTTAAGC GCACNTTAAA 100 GAAGGACATC AGNGAGAACA AGAGAGCTGT AAGACGCCTC CNTACTGCTT 150 GTGAACGTGC TAAGCGTACC CTCTCTTCCA GCACCCAGGN CAGTATTNAG 200 NTCGNTCTNT CTATGAAGGA ATCGACTCTN TACTCCATAC CNNNCCGATT 250 GAGACTGATG TGACNTTCCT GGGACTGNCA 280 (2) INFORMATION FOR SEQ ID :588: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :588: GGTGAAGAAA CTCCAGATAT CAAGGAATTG GGAAATCCTG GGCCAAACCA 50 100 CCCCAAGATG ATTACACTGA AATGTAGTAT TAGTACTNCT GCCAGATCTC TTTTTAACAT CATGTGCGTC TCTTGGGATC CAGCAAAGT GTTAAGCCAC 150 AATGCCCTTG TGCCTTTTAA TATACCACAG TGCCAGTTAA ACTAATATTT 200 TNTTTTGTTG CTTTTTGGGG TATTTTCATT AGTATTTCAG CAAATCTCAT 250

GATAAAGGNC AAGGNCAAGA ACTNCAGAGN ACTGAGCAGA GAGGCTNGTG

ATGAAANGTG AAGGCTTCNA CTGACTTTAN GCAGTGGCAG TCANGNTACT

304

(2) INFORMATION FOR SEQ ID :589:

GNGNNGCANG CTTANCTATG A

303

	(xi) SEQUENCE DESCRIPTION: SEQ ID :585:	
5	ACCCACGGTA CTTACATCCT ATGATATGGC CTGCAAACTA AACTACAAAC	, 50
5	GCACTCACAT CGCTATAATC CTTTTAAGGA CTTAAACTTT ACTCCATTAA	100
	GACTTTTATG ACTTCTAACA ACCTCGCCAA CCTCCTCACC CCCCACTATA	150
10	CCTCGGAGAA CTTTCGCGTA ATAACCACGT	180
	(2) INFORMATION FOR SEQ ID :586:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 183 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :586:	
25	ACCGACATCA CGANNGACTT GGTCTTAGTT GAGCAATTTG GCTAANNNNN	50
	NTNCTNNTTA GCACGTTCTG AGTCTGTGGG ATAGCTGCCA TGAAGTAACC	100
	TGAAGGAGGT GCTGGCTGGT AGGGGTTGAT TACAGGGTTG GGAACACTCG	150
30	AGANTGGCAT CCTGCATATA CTGGTTAGTG AGG	183
	(2) INFORMATION FOR SEQ ID :587:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 280 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID :587:

(D) TOPOLOGY: linear

Ġ	(xi) SEQUENCE DESCRIPTION: SEQ ID :583:	
	GGAACAAAGA AAATGTACAG AGTTATATGC GCTTTTTTTT GGTATGGGGG	50
	ACAAGAAACA CTTACCAACA AAAATATTTC AACAACCCCA AAATAACTTA	100
10	CTCACAAATA TGCAAAATTA TCTATGGCAT AGTATTTCGC ACTCGATGAC	150
	ATTTAGAGAT AAAAAATCAA ATGGAGCTT	179
15	(2) INFORMATION FOR SEQ ID :584:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 186 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :584:	
	AACTGCCATG AAGTAACCTG AAGGAGGCGC TGACTGGAGG GATTGATTAC	50
20	AGGATCGGAA CACTCCACAC TCGCCATTCT CTGCATATAC CGGTTAGCGA	100
30	GGCGAGCCTG GCGCTCTTCT TCGCGCTGAG CTAAAGCTAC ACACAATGCT	150
	TTGCGACCAC AATNCACCCT TCATTTCGTA ACTGCT	186
35	(2) INFORMATION FOR SEQ ID :585:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 180 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
40	(C) DINNIPURDO: GOGDIE	

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 (2) INFORMATION FOR SEQ ID :581:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 242 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	·
(xi) SEQUENCE DESCRIPTION: SEQ ID :581:	
CGGAGGGCCC TGTTTGGGAA AAATAGGATT TTAAAAATAT GGTTCATTAA	50
TTTAGGTTTT CTAACATCTA CTTGGGGATG TAGCCTCCAG TGAGGTCAGT	100
TAAGTGGGAC AGAAACGGCA GAGGGAAGAG GTCTTTGCTT CCCCTGGGCC	150
CATTCTCCCT GGCTGCCAGC CCTTGAAGTC AGAACACCAT GGGAAAATTC	200
AGGAGTCGGC ACTGTAGCCG TCAAGTGGCG CTACTTTCCA CA	242
(2) INFORMATION FOR SEQ ID :582:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: pucleic acid	

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID :582:

35 GCATTTTCT TGTGTGCTGT TTATAATAGC AAAGCAG

37

(2) INFORMATION FOR SEQ ID :583:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 179 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

	TCTCTNNAAT ATTTGCCTGT AGGTAAAAGC AAGCTCTGCA TATCTGTACC	250
	TCTTGAGATA GTTTTGTTTT	270
5	(2) INFORMATION FOR SEQ ID :579:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 139 base pairs(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :579:	
	GAGTTTTCAG AGGCCCGTGA GGACATGGCT GCCCTTGAGA AGGATTATGA	50
	GGAGGTTGGG TGGATCTGTT GAAGGAGAG GNAGAAGAGG AGAGGAATGC	100
20	TAAAGTTAAA ACGTAATAAA GATGCTGCTC TTACGGAAG	139
	(2) INFORMATION FOR SEQ ID :580:	
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 168 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :580:	
35	GGCAGGAATA CATATAGTCA TCATTGCCAG ACTTAATATG AGAGGTGAAA	50
	TGTTCGATCC AATTTATTTC TTGGATAAGT TTTTCTTTCC TATNCCTNTN	100
4.5	GTTTTGATAA TATAATAAAG AAGATGAGGG GCCCA: A TATAGAGCTC	150
40	CTGAGNGAGT TTTNGGAG	168

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 255 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

	(xi) SEQUENCE DESCRIPTION: SEQ ID :577:	·
10	GGACCTTGAC CCACATCCAT GTTGAGGAAT GTCCTCTTGT CAAGGTCAGG	50
	GAACAGCACC CACAGAGGGC CTCTGGGTCC CTCTCTGCTC AACTCCCTCT	100
15	CTCTCGGTTC CTGCGAGGCT CATAGGGTGC AGGGCCCAGC AGAAGGACTG	150
	AGTCTTCCTC CTGGACTTCT GGTCCTGGTA GGCTGTGCTT CATGCTCTCC	200
20	TGTCACCTGT ACTGTAAGGA ACTATTATGA CAAACGCATA AAGAATATGA	250
20	CTTTG	255
	(2) INFORMATION FOR SEQ ID :578:	
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 270 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :578:	
35	GAGGAGTCCA TGCCATCCTT GATGGAAAAG AAACTGAAGA GAAAAGACAG	50
	CCTGTGGAAG AAGCTCAAAG GTTCTTTGAA GAAGAAGAGA GAAAATATGA	100
40	CATGATATCT TTGCTTTTGA GTTCCTCACG CTCTCTGAAT TTATTAGTTG	150
40	GACAATTCCA TATGCAGCAT TCTGCTTCAA TATANCTCTT NNGGTCTCTC	200



. •	ATTATGGGGC AGAGAACCTT TTAATAAGTC TCATTAAGAT CTGAATTTTG	250
	GTTCTAAGCA TT	262
5	(2) INFORMATION FOR SEQ ID :575:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 56 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :575:	
	CCAAGGAACC ATCTGCGCCG CAAGCCAGAC CCCACAAGAC CTAGNTTGGT	50
20	CCTGAC	56
	(2) INFORMATION FOR SEQ ID :576:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 158 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :576:	
	GCGAGTCTCA AAGAGTAGAG GAGCGTCTAC TATCTTTCAA CTCCGATCTT	50
35	CTGATGNCGG ACTTTACCGT GACAGCGAAG TGGTATTGTA CGTCCAGGCC	100
	CGCCAGCCAC TGTCTTCATG CAGGAACCAC AGTGCCAGAT CCCCACAGCT	150
40	CGTATCTT	158
	(2) INFORMATION FOR SEQ ID :577:	

	CTTTCCTGTT TTAAACATGA AAGTGTGGC	179
	(2) INFORMATION FOR SEQ ID :573:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 189 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :573:	
15	AGGACCTCTA AGACATCCTT ATGACGACAG TTTTGTCCAA GGGGATATCC	50
	ACAGAGTACC TTGTGGCATT AGGTGATTGT AGTCATACAC TTTAAAAAGA	100
20	TTTTATTTCT GATCTTTTGG CGATCTTCTT CTTGCCCATG NNGCTGTTAC	150
	TTNGCNCGGG NAGCGGTTAA TTCTANCCGC TAGGTGTGC	189
	(2) INFORMATION FOR SEQ ID :574:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 262 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :574:	
35	GTGCCTTCTA GGTTTTGAAC TTCTATGCAT TAGCGCAGAT GTGGAATGCG	50
	TAAAGGTGTT CATAGTTTGA CTGTTTCTAT GATGTTTTTT CAAAGAATCG	100
40	TCCTTTTTTG AACTATAATN CCCCNCGGTT ATTTTACCAT CACAGTTTAA	150
	ATGTATATCT TTTACGTCTC TACTCAGACC ATATTTNAAA CCCCCCCTC	200

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	NGAAAGATGA AATAGATTNT TGAGCACTGG NTGCAGAGCC AAAATGCNTA	150
	ATGCTTT	157
5	(2) INFORMATION FOR SEQ ID :571:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 193 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :571:	
	GGCACTAAAG CCTTTAATAA TACGAGATGA AATGCAACNG TGNNATGACA	50
20	AGTAAGTGAG CCTGACCTGG CATTGCCTCG CCTCACCGCT GGCTTTGACC	100
	AGGGTATGAT CTTTAACTTT TCTGAGCTGA TTTGATCGTG GTCTTTACAC	150
	ACAGGTGGTC GTTCCTGTTT GGACACTGTT TTATTTGTTT GAC	193
25	(2) INFORMATION FOR SEQ ID :572:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 179 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :572:	
	TCGCAGGAGA AAGAGGTTTT CAGAGGCCCT GAGGACATGG CTGCCCTTGA	50
40	GAAGGATTTG AGGAGGTTGG TGGAATTTGT TGAAGGAGAG GGCGAGGAAG	100
	AAGGAGAGGA TACTAAAGTT AAAACGTCAC AAGGTGTGCT TTTAAGGGAG	150

. •	AAACAAATAT AGTATAAACA TTAAACAAAT GAACAATAAT CATCAATAGA	100
•	CGGGTTACTT TCAAGGAAGA GTTGTTTTGT GACAAATTCT ACTCTTGATC	150
· 5	TA	152
	(2) INFORMATION FOR SEQ ID :569:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 181 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Torologi. Timear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :569:	
20	CAGGTCCGCG TGCTCTCCGC ACCACCCCAC TTCATTCCGG CCAAACCAAC	50
20	CGCACCCCTG AATTTCTCCG CAAATTTCCT GCCGGCAAGG TCCCAGCATT	100
	TGAGGGGATG ATGGATTCTG TGTGTTTGAG AGCAACGCCA TTGCCTATTA	150
25	CGCGAGCAAT GAGGAGCTGC GGGGAAGTAC T	181
	(2) INFORMATION FOR SEQ ID :570:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 157 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :570:	
40	ATCCCTTGGG AGTTTATTCT CCTGGTAAGC TGTAATTGCA TATCCAGTTT	50
40	AACTGGACTG GGCTGTTTT GGCGAGGATC NGCAGGGTTT TTTCCTCNNT	100

40



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	GAAGATACAG AACCATCCGT GAAAATCATT TAGCACTGGA GACCTTCTTT	50
	GTATTACTTC CTNGTTACTA "GACCTCTAA TTCAATGGGG CCCTGCTGGT	100
5	TTGTCGATGA ATTGAGCAAC TGAGAACG	128
	(2) INFORMATION FOR SEQ ID :567:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 202 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
• •		
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :567:	
	GGAGGCTCGG GAGTAGCATC CTCAGGAGTA GTGTAGCGAG CAAATTTGGA	50
20		
	AAGTAGTCCT CAATCTTCGA TTTCCCAGCA AGGACTTTCT CAGCNAGCGA	100
	TCTCGNTTGT TGAGGAACGG ATCAAGAGAT GNNNGTNTAG CTGTNNTGTT	150
25	GTTTAGATGT CTTGAAGAGG TTAGAGCCTC CTGTAGGCGG TTGGNNTGGG	200
	NG	202
	(2) INFORMATION FOR SEQ ID :568:	
30	(2) INFORMATION FOR SEQ ID . SOO.	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 152 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :568:	

ATGTCATGAT GCCTAACTCA TACACTCTTT GCCTCAAATA TAATTACTAA

	GGGACCCCAA ATCACATCCA GAATACTAGA GTGAGGCAGC TGCAACATGA	50
	CACAGAAAAA TGGAATCAGG ATTTAGGGGA ATTGGATTTC AGTGCCTATT	100
5	GAGACACGAT CTAGGAAGCC TACCACTTTG GCTGCTCACT GTATGCACAC	150
	AACCCNANNA NAATNGATGA AAACAAGAAT GTACAGCATG CTCCTAACAC	200
10	AANGTGACTA TTC	213
	(2) INFORMATION FOR SEQ ID :565:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 167 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :565:	
	TCCATCTGAC ATCGCATTTC CATAGAAATG GCCAAAGAAA GAAGGTCCTG	50
25	GGGTTTTCA TAGAAAGCTC AAAAAGTTCA ACCTTGATGC TATCCCCCAG	100
	CCCAATACAA AATACACAGA AAAAGCAATT ATTAAAATAC TGGCTTCGGT	150
30	TTCTTTTTT CCTTTAA	167
	(2) INFORMATION FOR SEQ ID :566:	
	(i) SEQUENCE CHARACTERISTICS:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs (B) TYPE: nucleic acid	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :566:

	(xi) SEQUENCE DESCRIPTION: SEQ ID :562:	
	ATAAGTTATA GCAAATACAG TCTTCACAGA TTTGAGTAAC TTTATTCGAT	50
5	TTTATAGTGA TTTCTTAAGG CCTATATCCA ATGAAACCAT TTCCAAGCTC	100
	TATGAGGAGT GGAATTTTAG ATGTCTATTA CATTNGTCTT TTAAAAGAAA	150
	AATGCTTAAC NNCTAGAATG AGCAAGATTA CTT	183
10	(2) INFORMATION FOR SEQ ID :563:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 187 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :563:	
	AGAGACACGT GAAATTCATA TCTCAAANNC ACAGAGCTGA GACTTTGGGC	50
25	CTAAATACTG TACCACTGGT TCCCTGAACC AAGGAAGAAA AGTGTCGGTA	- 100
	AAGGCCCGTT AAGACAAGAT GGCAAGGAAA AGCACCTTAA ACAATGGTAA	150
20	GATTTATGTT AGATCAGTGG TAAGAGTTTC TAGTGAC	18
30	(2) INFORMATION FOR SEQ ID :564:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 213 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :564:	

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :560:	
	CCTTGATGAT ACCATTATCC TCATTATAGA TGATGCACGG GCCCCTGCGC	50
	TGGATACGGC GACGGTTTCT CATTTGCCTT TGTCAGCTCT CATTCGCTGA	100
10	GAGGCATAGA CCTTTTTGAT ATCATCAGGC TTTCCGTTTT TAGGAGCAAA	150
	ACAGCTTCTT	160
15	(2) INFORMATION FOR SEQ ID :561:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :561:	
	GCAGTTGGCA GGTGCACTAT CCCAGATGGG CCACTAATAG AAAGTTCCGC	50
30	AAATGCACCC CGTTCCCCTG TGCGAGATCG TTTGAATNAG ACCAGAAACT	100
30	G	101
	(2) INFORMATION FOR SEQ ID :562:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 183 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 183 base pairs

(C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID:558: (xi) SEQUENCE DESCRIPTION: SEQ ID:558: (xi) SEQUENCE DESCRIPTION: SEQ ID:558: (xi) SEQUENCE CATTANTCCG ACTCTGATGC TANGGTGACA 100 (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (C) STRANDEDNESS: double (C) STRANDEDNESS: double (Xi) SEQUENCE DESCRIPTION: SEQ ID:559: (Xi) SEQUENCE DESCRIPTION: SEQ ID:559:		(B) TYPE: nucleic acid	
(xi) SEQUENCE DESCRIPTION: SEQ ID :558: GAATTTAAAA AAAAAGAAAG AAAGAAAGAA AGGTTCCATC TTAGATTCTC 50 ACAACCTTCG TTCCGCAGTT CATTAATCCG ACTCTGATGC TAAGGTGACA 100 GGATTTCTCT CTGTATCTTA AGAGTTATCA GAT 183 (2) INFORMATION FOR SEQ ID :559: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :559: (xi) SEQUENCE DESCRIPTION: SEQ ID :559: 30 GTCATCTTG GAAAGTGAGA TAACCAAGGA AATAATCGAA GGAGTTAGGG 50 AGATGATTAC GTGATAATGA CTTTGGGCGC TTAACCTTTG ATCCCGGGTA 100		(C) STRANDEDNESS: double	
GAATTTAAAA AAAAAGAAAG AAAGAAAGAA AGGTTCCATC TTAGATTCTC ACAACCTTCG TTCCGCAGTT CATTAATCCG ACTCTGATGC TAAGGTGACA 100 15 GTGTATGTAA GTAGATTTTT GTTTTCAGTG AAGGAGACCT GGGAAAAGAT 150 GGATTTCTCT CTGTATCTTA AGAGTTATCA GAT 183 (2) INFORMATION FOR SEQ ID :559: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :559: 30 GTCATCTTG GAAAGTGAGA TAACCAAGGA AATAATCGAA GGAGTTAGGG 50 AGATGATTAC GTGATAATGA CTTTGGGCGC TTAACCTTTG ATCCCGGGTA 100 35 TGCTNAAGAA GCTGAC 116	5	(D) TOPOLOGY: linear	
GAATTTAAAA AAAAAGAAAG AAAGAAAGAA AGGTTCCATC TTAGATTCTC ACAACCTTCG TTCCGCAGTT CATTAATCCG ACTCTGATGC TAAGGTGACA 100 15 GTGTATGTAA GTAGATTTTT GTTTTCAGTG AAGGAGACCT GGGAAAAGAT 150 GGATTTCTCT CTGTATCTTA AGAGTTATCA GAT 183 (2) INFORMATION FOR SEQ ID :559: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :559: 30 GTCATCTTG GAAAGTGAGA TAACCAAGGA AATAATCGAA GGAGTTAGGG 50 AGATGATTAC GTGATAATGA CTTTGGGCGC TTAACCTTTG ATCCCGGGTA 100 35 TGCTNAAGAA GCTGAC 116			
GAATTTAAAA AAAAAGAAAG AAAGAAAGAA AGGTTCCATC TTAGATTCTC ACAACCTTCG TTCCGCAGTT CATTAATCCG ACTCTGATGC TAAGGTGACA 100 15 GTGTATGTAA GTAGATTTTT GTTTTCAGTG AAGGAGACCT GGGAAAAGAT 150 GGATTTCTCT CTGTATCTTA AGAGTTATCA GAT 183 (2) INFORMATION FOR SEQ ID :559: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :559: 30 GTCATCTTG GAAAGTGAGA TAACCAAGGA AATAATCGAA GGAGTTAGGG 50 AGATGATTAC GTGATAATGA CTTTGGGCGC TTAACCTTTG ATCCCGGGTA 100 35 TGCTNAAGAA GCTGAC 116			
GAATTTAAAA AAAAAGAAAG AAAGAAAGAA AGGTTCCATC TTAGATTCTC ACAACCTTCG TTCCGCAGTT CATTAATCCG ACTCTGATGC TAAGGTGACA 100 15 GTGTATGTAA GTAGATTTTT GTTTTCAGTG AAGGAGACCT GGGAAAAGAT 150 GGATTTCTCT CTGTATCTTA AGAGTTATCA GAT 183 (2) INFORMATION FOR SEQ ID :559: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :559: 30 GTCATCTTG GAAAGTGAGA TAACCAAGGA AATAATCGAA GGAGTTAGGG 50 AGATGATTAC GTGATAATGA CTTTGGGCGC TTAACCTTTG ATCCCGGGTA 100 35 TGCTNAAGAA GCTGAC 116			
GAATTTAAAA AAAAAGAAAG AAAGAAAGAA AGGTTCCATC TTAGATTCTC ACAACCTTCG TTCCGCAGTT CATTAATCCG ACTCTGATGC TAAGGTGACA 100 15 GTGTATGTAA GTAGATTTTT GTTTTCAGTG AAGGAGACCT GGGAAAAGAT 150 GGATTTCTCT CTGTATCTTA AGAGTTATCA GAT 183 (2) INFORMATION FOR SEQ ID :559: (i) SEQUENCE CHARACTERISTICS:		(xi) SEQUENCE DESCRIPTION: SEQ ID :558:	
ACAACCTTCG TTCCGCAGTT CATTAATCCG ACTCTGATGC TAAGGTGACA 100 15 GTGTATGTAA GTAGATTTTT GTTTTCAGTG AAGGAGACCT GGGAAAAGAT 150 GGATTTCTCT CTGTATCTTA AGAGTTATCA GAT 183 (2) INFORMATION FOR SEQ ID :559: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 25 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :559: 30 GTCATCTTTG GAAAGTGAGA TAACCAAGGA AATAATCGAA GGAGTTAGGG AGATGATTAC GTGATAATGA CTTTGGGCGC TTAACCTTTG ATCCCGGGTA 100 35 TGCTNAAGAA GCTGAC 116	10		
GGATTTCTCT CTGTATCTTA AGAGTTATCA GAT (2) INFORMATION FOR SEQ ID :559: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :559: GTCATCTTTG GAAACTGAGA TAACCAAGGA AATAATCGAA GGAGTTAGGG AGATGATTAC GTGATAATGA CTTTGGGCGC TTAACCTTTG ATCCCGGGTA TGCTNAAGAA GCTGAC 116		GAATTTAAAA AAAAAGAAAG AAAGAAAGAA AGGTTCCATC TTAGATTCTC	50
GGATTTCTCT CTGTATCTTA AGAGTTATCA GAT (2) INFORMATION FOR SEQ ID :559: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :559: GTCATCTTTG GAAACTGAGA TAACCAAGGA AATAATCGAA GGAGTTAGGG AGATGATTAC GTGATAATGA CTTTGGGCGC TTAACCTTTG ATCCCGGGTA TGCTNAAGAA GCTGAC 116		NON COMMON THROUGH CAMERANTOCC ACTORDATIC TARCCTCACA	100
GGATTTCTCT CTGTATCTTA AGAGTTATCA GAT (2) INFORMATION FOR SEQ ID :559: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 25 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :559: GTCATCTTTG GAAAGTGAGA TAACCAAGGA AATAATCGAA GGAGTTAGGG 50 AGATGATTAC GTGATAATGA CTTTGGGCGC TTAACCTTTG ATCCCGGGTA 100 35 TGCTNAAGAA GCTGAC 116		ACAACCTTCG TTCCGCAGTT CATTAMICCG ACTCTGATGC TAAGGTGACA	100
GGATTTCTCT CTGTATCTTA AGAGTTATCA GAT (2) INFORMATION FOR SEQ ID :559: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 25 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :559: GTCATCTTTG GAAAGTGAGA TAACCAAGGA AATAATCGAA GGAGTTAGGG 50 AGATGATTAC GTGATAATGA CTTTGGGCGC TTAACCTTTG ATCCCGGGTA 100 35 TGCTNAAGAA GCTGAC 116	15	GTGTATGTAA GTAGATTTTT GTTTTCAGTG AAGGAGACCT GGGAAAAGAT	150
(2) INFORMATION FOR SEQ ID :559: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :559: GTCATCTTTG GAAAGTGAGA TAACCAAGGA AATAATCGAA GGAGTTAGGG 50 AGATGATTAC GTGATAATGA CTTTGGGCGC TTAACCTTTG ATCCCGGGTA 100 35 TGCTNAAGAA GCTGAC 116	13		
(2) INFORMATION FOR SEQ ID :559: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :559: GTCATCTTTG GAAAGTGAGA TAACCAAGGA AATAATCGAA GGAGTTAGGG 50 AGATGATTAC GTGATAATGA CTTTGGGCGC TTAACCTTTG ATCCCGGGTA 100 35 TGCTNAAGAA GCTGAC 116		GGATTTCTCT CTGTATCTTA AGAGTTATCA GAT	183
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 25 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :559: 30 GTCATCTTG GAAAGTGAGA TAACCAAGGA AATAATCGAA GGAGTTAGGG 50 AGATGATTAC GTGATAATGA CTTTGGGCGC TTAACCTTTG ATCCCGGGTA 100 35 TGCTNAAGAA GCTGAC 116			
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 25 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :559: GTCATCTTTG GAAAGTGAGA TAACCAAGGA AATAATCGAA GGAGTTAGGG 50 AGATGATTAC GTGATAATGA CTTTGGGCGC TTAACCTTTG ATCCCGGGTA 100 35 TGCTNAAGAA GCTGAC 116		(2) INFORMATION FOR SEQ ID :559:	
(A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 25 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :559: GTCATCTTTG GAAAGTGAGA TAACCAAGGA AATAATCGAA GGAGTTAGGG 50 AGATGATTAC GTGATAATGA CTTTGGGCGC TTAACCTTTG ATCCCGGGTA 100 35 TGCTNAAGAA GCTGAC 116	20		
(B) TYPE: nucleic acid (C) STRANDEDNESS: double 25 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :559: GTCATCTTTG GAAAGTGAGA TAACCAAGGA AATAATCGAA GGAGTTAGGG 50 AGATGATTAC GTGATAATGA CTTTGGGCGC TTAACCTTTG ATCCCGGGTA 100 35 TGCTNAAGAA GCTGAC 116		(i) SEQUENCE CHARACTERISTICS:	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :559: GTCATCTTTG GAAAGTGAGA TAACCAAGGA AATAATCGAA GGAGTTAGGG 50 AGATGATTAC GTGATAATGA CTTTGGGCGC TTAACCTTTG ATCCCGGGTA 100 35 TGCTNAAGAA GCTGAC 116			
(xi) SEQUENCE DESCRIPTION: SEQ ID:559: GTCATCTTTG GAAAGTGAGA TAACCAAGGA AATAATCGAA GGAGTTAGGG 50 AGATGATTAC GTGATAATGA CTTTGGGCGC TTAACCTTTG ATCCCGGGTA 100 TGCTNAAGAA GCTGAC 116			
(xi) SEQUENCE DESCRIPTION: SEQ ID:559: GTCATCTTTG GAAAGTGAGA TAACCAAGGA AATAATCGAA GGAGTTAGGG 50 AGATGATTAC GTGATAATGA CTTTGGGCGC TTAACCTTTG ATCCCGGGTA 100 TGCTNAAGAA GCTGAC 116			
GTCATCTTTG GAAAGTGAGA TAACCAAGGA AATAATCGAA GGAGTTAGGG 50 AGATGATTAC GTGATAATGA CTTTGGGCGC TTAACCTTTG ATCCCGGGTA 100 TGCTNAAGAA GCTGAC 116	25	(D) TOPOLOGY: linear	
GTCATCTTTG GAAAGTGAGA TAACCAAGGA AATAATCGAA GGAGTTAGGG 50 AGATGATTAC GTGATAATGA CTTTGGGCGC TTAACCTTTG ATCCCGGGTA 100 TGCTNAAGAA GCTGAC 116			
GTCATCTTTG GAAAGTGAGA TAACCAAGGA AATAATCGAA GGAGTTAGGG 50 AGATGATTAC GTGATAATGA CTTTGGGCGC TTAACCTTTG ATCCCGGGTA 100 TGCTNAAGAA GCTGAC 116			
GTCATCTTTG GAAAGTGAGA TAACCAAGGA AATAATCGAA GGAGTTAGGG 50 AGATGATTAC GTGATAATGA CTTTGGGCGC TTAACCTTTG ATCCCGGGTA 100 TGCTNAAGAA GCTGAC 116		(xi) SEQUENCE DESCRIPTION: SEQ ID :559:	
AGATGATTAC GTGATAATGA CTTTGGGCGC TTAACCTTTG ATCCCGGGTA 100 TGCTNAAGAA GCTGAC 116	30	· · ·	
35 TGCTNAAGAA GCTGAC 116		GTCATCTTTG GAAAGTGAGA TAACCAAGGA AATAATCGAA GGAGTTAGGG	50
35 TGCTNAAGAA GCTGAC 116			
		AGATGATTAC GTGATAATGA CTTTGGGCGC TTAACCTTTG ATCCCGGGTA	100
(2) INFORMATION FOR SEC ID .560.	35	TGCTNAAGAA GCTGAC	116
		(2) INDODUNTION DOD CEO ID . 560.	
(2) INFORMATION FOR SEQ ID .300:		(2) INFORMATION FOR SEQ ID :560:	
(i) SEQUENCE CHARACTERISTICS:		(i) SEQUENCE CHARACTERISTICS:	
40 (A) LENGTH: 160 base pairs	40	• • •	
	- -	(B) TYPE: nucleic acid	
(. ,		(C) STRANDEDNESS: double	
(2)		(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :556:	
	TCTGCTGTCT GTCGCAGGAG AAGGAATGTC AGAAACTTCA TCCTCTTGTT	50
10	GGGGAATGCA CCCTCNTGAG TAGGCTGACC CATGAGGCTG TGGGAATTGA	100
10	GTCTTAGGAC ACAGAGACCA GGGTGTTGAA TTTTCTTCCC TGCCCCTAGG	150
	CTGTTCAGGT CTTCCTGCAG CAGTCAGGGC TGCAAGCCCT GGAAAGGCAT	200
15	CAAAAGAGGC CCAGCTCCAG GATCGTGTGT ATGCTCTCCA GCAGACAGCT	250
	CTTCAAGGGT GATCTTGTT	. 269
20	(2) INFORMATION FOR SEQ ID :557:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 245 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	·	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :557:	
50	ACTCCCTCAA GGTCGTGCGT CTAAGCCTAC AAGAAAGTTT GCCTATCTGG	50
	ACCCTGNCTC ACGAGGTTGG CTGGAAGTAC CAGGCAGTGA CAGCCACCCT	100
35	GGAGGAGAAG AGGAAAGAAAA AAGCCAAGAT CCACTACCGG AAGAAGAAAC	150
	AGCTCATGAG GCTACGAAAC AGGCCGAGAA GAACGTGGAG AAGAAAATTG	200
40	ACAAATACAA AGGTTCTCAA GACCCACNNA CTCCTAGNTT NAGCC	245
40	(2) INFORMATION FOR SEC ID .558.	

(2) INFORMATION FOR SEQ ID :554:

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 198 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :554:	
	ACTTATTGAA ATAGCAGACA TTTCGCTAGA CACTCCAATT AACCTGATAT	50
15	GAGGCGCTAA TCAATAAAAA AAGTTAAACA TTTGCATGAC TCTACTATGG	100
	GAATAAATTA CCTGTTTAAT ACCTCGACTT TTTATAGAAA AATAATGATG	150
••	NCCAAGGTAA ACCAGGTAAC CCAGGCCTGT GAACTATATG CCTGGAAC	198
20	(2) INFORMATION FOR SEQ ID :555:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 97 base pairs	
25	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :555:	
	CAAGCTGAGG AGCAAGGAGA GCCAGTCTGA GTCCCAAAAC TGAAGAACTT	50
35	GAGTCTGATG TTCGAGGGCA GGAAGCACCC AGCACAGGAG AAAGATG	97
	(2) INFORMATION FOR SEQ ID :556:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 269 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

	AGGGCAGCAT TTTCATATCC AAGATCAATT CCCTCTCTCA GCACAGCCTG	100
	GGGAGGGGT CATTGT	116
· 5	(2) INFORMATION FOR SEQ ID :552:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 150 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :552:	
	CTCATCCTCT CCTATTACAT AGTGAAGCCC ATGNCAAATA GGAAGAAGCT	50
20	CAGTATCGCT CCTCCCACCA TAACCCCCCT TAATGCCTCC TGAACCATAG	100
	TTNCCTCCAC TATATATCCC CCCATGTTCC TGCTACCCCA AGTTTTCACT	150
	(2) INFORMATION FOR SEQ ID :553:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 189 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :553:	
35	ACTTATTGAA ATAGCAGACA TTTCGCTAGA CACTCCAATT AACCTGATAT	50
	GAGGCGCTAA TCAATAAAAA AAGTTAAACA TTTGCATGAC TCTACTATGG	100
40	GAATAAATTA CCTGTTTAAT ACCTCGACTT TTTATAGAAA AATAATGATG	150
	NCCAAGGTAA ACCAGGTAAC CCAGGCCTGT GAACTATAT	100

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	AGGGGGCTAA NGGTTGGGGG CAGGAGGCAT TGCTGATGAT CTTGAGGCTG	50
	TTGTCATACT TTTCACGGTT CACACCCACG ACGACACGGG GACTCAGCAG	100
5	AGGGGCAAGA CACGACCTTT AGTTTCCCCC TTGCGATAAN CTTCNC	146
	(2) INFORMATION FOR SEQ ID :550:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 221 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :550:	
	AAATATNGAN TATCCATCCC CTCAAGCATT TATCCTTTGT GTTACAAACA	50
20	ATCCAATTAT ACTCTTTCAG TTATTTTAAC ATGTACAATT AAATTATTAT	100
	TGACTCTAGT CACCTTGTTG TGCGAGCAAG TACTAGGTCT TATTCATTCT	150
25	TTCTAACTAT TCCAGGCCCT TTTTAATCAA GAAGGCTCCC TAGACCAAAA	200
	TTTTAAAAAG ACAATGCTAG G	221
	(2) INFORMATION FOR SEQ ID :551:	
30	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 116 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEC ID :551:	
40	AAACATCGTT TATTCATCCA GCAGTGTTGC TCAGCTCCTA CCTCTGTGCC	50

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(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :547:	
	ATNOCTTOTO CATOCANTTA GTTANCAGAA ACTAATCAAA AGAAAGTOTG	50
	ACAACTGCAC TCCCCCTTGC ATGCCATTCT CTCAAGCCCA TAATCTTGGA	100
10	GTATCCACAA CGTGCGAAGG CCTACCCTTT GTGTGTACTC ATCTCACGTT	150
	TACGTATTTT GTNGTTGAGG AGCTCCTCTA CAAATGTTGC GTATCTTCCG	200
15	AATCACTCAT TTAGAAAA	218
	(2) INFORMATION FOR SEQ ID :548:	
20	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 46 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :548:	
30	GGAGGAGACC ATCAGNCCCG TGAAGACCAC TCCTGACGTC TCGTGT	46
30	(2) INFORMATION FOR SEQ ID :549:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 146 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID :549:

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
· 5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :545:	
	GATTCAGCTC CAGCATCCTT GCCACCTCCC CACCCGGGAG TCAAGGGTCG	50
10	TGGTTCTGCC TTGAACAGGC CACAGCCGTA GCTGTAGAGA GGCCAGTGGT	100
	ACATCAGCCC ACCGACAGGA GGAGGAGCCC TGGCTTGAGG GAAGGGGAAG	150
15	CCCAGGCCTG T	161
	(2) INFORMATION FOR SEQ ID :546:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 188 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :546:	
30	AATAGCCCTG AGGTCATCCT GCAAAGTGCG TATCAAAAAA TACGAAGTTA	50
	GGGTGACAAA GTTTGACAGT GATGTTATAC AAGTCAAACT TGGAAGGTCA	100
	TAGTAAGCAT ACCTATGCTG AGAGAAAGCA TCAAATCCTT TGTGTACACA	150
35	TTTAGTTTTA TTGTAACAAA GCAACTTGTA CACTTTTA	188
	(2) INFORMATION FOR SEQ ID :547:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 218 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 186 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :543:	
	AAGTAGATAG CTTGCATCCT GACACCGTGG CAAAGTTAAG AAAGTTGAAG	50
	GAGAAACATA CCTTGAGAGG GGGTTTTCTT TAAAACTAGT GTTAGAAGCT	100
15	TAGGGATTTT TTTTTTATT CCTTACTAAC TTTCACCCAG AACCGCTCTA	150
	TTTGACTTGT GCCGACATTG CAAACTTTNT GACAGG	186
20	(2) INFORMATION FOR SEQ ID :544:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 153 base pairs	
	(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :544:	
50	AGCATCCTTG CCACCTCCCC ACCCGGGAGT CAAGGGTCGT GGTTCTGCCT	50
	TGAACAGGCC ACAGCCGTAG CTGTAGAGAG GCCAGTGGTA CATCAGCCCA	100
35	CCGACAGGAG GAGGAGCCCT GGCTTGAGGG AAGGGGAAGC CCAGGCCTGT	150
	GCC	153
40	(2) INFORMATION FOR SEQ ID :545:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 161 base pairs	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 175 base pairs

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :541:	
10		
	AATTGAATTC TTAAGAAGCT GTCAAATATG GCAGTCTTTT GATGTTAGTA	50
	ATTTTGTTTT CTTCTGTGTT ATTGGTTCAA AGTACTGGCC TTTTCCTTCA	100
15	TTTCCAGTAA TTATTTTATA ACTATCACTT TTAATTGAGT GGAAATTAGA	150
	TGATTTGGTT ATACTGTGAA ACAGC	175
22	(2) INFORMATION FOR SEQ ID :542:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 221 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :542:	
30	AAGTACCTTT TCCTGCAGCT GCCCGTATGC CTGAGTGACT AAGGGGCAGT	50
	CGTGAGAGGC AGAGTCCAAG ATCTCATTGG TCGTTTCCAG ACTGCCGTCC	100
35	AGCCGTGCTG CTTCATCAGG GCACACTCGC CGCCCTCCTG GGGCCAGGTT	150
	GCACATGTAC AGGTACCCGT CGGCGCACCC ACCAACAACG CGGTCTTCTG	200
40	AATCGCGACT GGCNAACAGA T	223
40	(2) INFORMATION FOR SEQ ID :543:	

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(2) INFORMATION FOR SEQ ID :539:

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 184 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :539:	
	AGAAGGTAAG GGAGTGGGAG GCAGGTGGGT GTTCTGGAGG GGGTATCCTT	, 50
15	GTGCTCTAAG GGTGCTATGT TCGATGCTGG TGTTTCGGGG ATGGTGAATG	100
	CCCTTCTTTA ANNTTAGAGG GAAATCCAAA CCAATAGGCC CCAAGGTTGC	150
20	CAGTGGGATA GGGGTGTAAA AAAGTAAATT GGGC	184
20	(2) INFORMATION FOR SEQ ID :540:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 154 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :540:	
	AACTTATAGA AAAGTAAAGG AAACCCCAAC ATGCATGCAC TGCCTTGTGA	50
35	CCAGGGAAGT CACCCCACGG CTATGGGAAA TTAGCCCGAG GCTTANCTTT	100
	CATCATCATG TCTCCCAGGG NGTGCTTGCA AAGAGATATT CCGCCAAGCC	150
40	AGAT	154
40	(2) INFORMATION FOR SEQ ID :541:	

	. •	NTCGGCAGTT GTCTTACT	168
		(2) INFORMATION FOR SEQ ID :537:	
. 5		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 147 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
10			
		(xi) SEQUENCE DESCRIPTION: SEQ ID :537:	
15		CGGATCATTT TTATCTGATT CCAGCCTGCT TGCAACCCTG GAATCCTCTT	50
		GTTCCCTGCT GCCTGCCCCT TGGGAAGGNA CAGTGATGTC TTTAGGGGAA	100
20		GGAGGAGCCC CTNTCGGCAG TTGTCTTACT AGGNNNNTAA TGAAGTA	147
		(2) INFORMATION FOR SEQ ID :538:	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 250 base pairs	
25		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
30			
		(xi) SEQUENCE DESCRIPTION: SEQ ID :538:	
		GTGGAATCTC AATAATGACA CAAGGTACCA ACTGCCAGCA TTTCTGCGAG	50
35		GCAATCCTGC TCTTAATCTG CAAGATGGAC CCTTCTGCAG AGAGATTGCT	100
		GTGGGTGATT CTAAGGACAG ATTGTTATAT ACGATGTGGG AGAGCAGATT	150
		GCTGTTCCCC GCAATGATGA ATGGGCACGG TTTGGCCGAA CACTTGCAGA	200
40		AATNAATGTA AACCCNAACT GATGTAGAGA GGACGCAGCT GCCCNAATAC	250

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	TTAG	154
	(2) INFORMATION FOR SEQ ID :535:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 212 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :535:	
		`
15	GATTACCCTA TATCTACAAT TNGAGGTAAA ATAGAAGCAA CACATAAAAG	50
	GGCCTATTTC TGCTACCATG TCATATAATT CTCCATAGTG AATATTGTGA	100
	TAAAGCTACT GAAAACTATG CCTCACAGAG CCTAGCTTCT TGTAGAGCTG	150
20	GTATTTTACA ACTCGCATTG CTTGGAAATC TCAACACACG TAAGACTCTC	200
•	CTAGGAAGGC AC	212
25	(2) INFORMATION FOR SEQ ID :536:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 168 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :536:	
	GGAAGCTCAA TGTCCGGCAG GTCAATGCTT CNCGGACACG GATCATTTTT	50
	ATCTGATTCC AGCCTGCTTG CAACCCTGGA ATCCTCTTGT TCCCTGCTGC	100
40		

CTGCCCCTTG GGAAGGNACA GTGATGTCTT TAGGGGAAGG AGGAGCCCCT

150 .

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	(2) INFORMATION FOR SEQ ID :533:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 287 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :533:	
	GAAACAAGTT CTCGCTCATC CCTGCATTTC TGCCAACTTC AGCTTGCAAT	50
15	ATTTATACTC CAGACTATTT TCATCAGACA AAAACCAGTA AGCAGGGTCC	100
	TCTTTGAGAA GAGTTCTCTC TTTGGGAGAC AGGCTGCCTT CGATGACACG	150
	TTTCACAAGC TGGTTGATGG TGCCCACTAC CCGTGATCTG CTCGCTGGGG	200
20	GACAGCATCA CTCAGACTAC TTGGAGCCTT GCCTGAATTT CAGGTTTCGT	250
	AGGAGGAATA ATTTTCTCCT TCTNTNGTAT CGNCTCT	287
	AGGAGGAATA ATTITUTUUT TUTNINGTAT USNUTUT	20,
25	(2) INFORMATION FOR SEQ ID :534:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 154 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :534:	
	AGCCACTGCC CCTCTTGTCT ACGTATTCCC AAAATTAAAC TTTGATGCCT	50
	GACTTTTTGC AGTCAGTTTT AAGTGAGCTC CCTGAGGTGC CAAGGCCATG	100
40		

GTGTCCCCCT GCTGCGTCTG TTCGTCAGCT GAGTTCTTGT GAATCTNTGT

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	(2) INFORMATION FOR SEQ ID :531:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 204 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :531:	
	AAAGCATTCA AGTAAGAATA TGGCAATAAA AAACAAAAAT ATCTTCTCAG	50
15	CATTCAAAAC AAAACGCATA AGTCATTCCT AACTTNAGAG CTTTATAGCA	100
	TTTTCCTAGA CAGGAAGGGA AAAAACAGTT AGCATTTAAA AGTCCGGAAA	150
20	GCTTTTCGT TGNNTTAATT ACATCAACNN TCTGCCTTTG TCCAAATCCC	200
20	TTAT	204
	(2) INFORMATION FOR SEQ ID :532:	
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 183 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :532:	
35	AAAGGAGCTC AGAACTTCAG CTTGAGCAGG AAGAGGAGGA CGTGCCAGAC	50
	CAGGAACAGA GCAGCAGCAT CGAGACCCCA TCAGAGGAGG CGGCCTCTCC	100
40	CCACAGCTGA GGGGCTGGGC TAGGGGTGGG TGGAGCCCTT TTAAAATACC	150
40	CTTTCTTCAA AACTTAGCTC TGAATGGAGA AAC	183

	CTNCGCTGCA AGGTGACTCA CTAAAATCAT NTGTTAACAC CAACATTATT	200
	TTTACACCCA GTGTGTAAGC CAGAAGGGC	229
5	(2) INFORMATION FOR SEQ ID :529:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 117 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear "	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :529:	
	ATATTATTCA TCATCCCAAG GTCACATCTA GTAAGATGGA AGACTTGGCA	50
20	ACAAGTGCAG GTTTTTGCTT TCTTTGATTC ATATCGTGCA AGACTTCTTC	100
	CTTAGCCTCT TTGCTTC	117
	(2) INFORMATION FOR SEQ ID :530:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 179 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :530:	
35	TCGCAGCAGA AGGAAGCTGA TCCACCATCC GGACAACCCG AACCCAAGCT	50
	GAAGACGAGA AATGATCCAG AAAGAATGTG CTGCAATCCG GTCATCTTTT	100
40	AGAGAAGAAG ACAATACACA CCAATGTCGA AATGTGGCAA AATTACTGTA	150
	TATGCACATG CTGGTGCTAC CCTCTCACT	179

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	••	GGGAAGC	207
		(2) INFORMATION FOR SEQ ID :527:	
5		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 218 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
10			
		(xi) SEQUENCE DESCRIPTION: SEQ ID :527:	
15		AGCATTCCGT AAGGACGGAC GTGTTCAAGG ACAACTTTGA TGAGATGGAC	50
		AGGTCTAGGG AGGTTGTTCA GGAGCTCATT GATGAGTACC ATGCGGCCAC	100
20		CCAGCCAGAC TACATTTCCT GGGGCACCCA GGAGCAGTGA TTTCCCTCCC	150
		CACTACTTCT TTNCTTAGAT GGTAACCACA GCCTCGACCA TGCCTGCTCC	200
		CTCTGACCCA GCTTCACC	218
25		(2) INFORMATION FOR SEQ ID :528:	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 229 base pairs	
		(B) TYPE: nucleic acid	
30		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
35		(xi) SEQUENCE DESCRIPTION: SEQ ID :528:	
		AACCTNATGA CTCTCCATCC CCTTGAACCA AACATCTAGC ACTCAGCTCC	50
40		AGCATATTTC ACCATTCAAC CCGAAATTCA CAAACGCTAC TTGTCGACTT	100
		GTAACCAATT TACTCAGCAA GTGCTGACTC CTTAACGGAT CATCCCCATC	150

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 291 base pairs(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :525:	
10		50
	AAACTGTTCT TTAAAAGGCC TCTCCTGGTT ATTAAGCCAG GAAGAGAAGT	30
	AGAATCTCGA ATCACCTAAN GGAAATGGTG ACACAGGTTG TCCTTTCTCA	100
15	GCCGTTGGTT TCCTTTCATC TCTGAAGGCC TGTAGTACCA TGAGGAAAAC	150
	ATTTAATTTA GAGGGTGAAC CCAACAGTAG GAAGCTGAAA GCAGAAGTGT	200
	TTATCTCCCT CTGCATTCAG ACCAGGCTCC TTAGTGCACT CATCAGACTA	250
20	TCGCTGCCCC TGCTGTCTGC TGTTGAGCCT TCACCACCAC T	291
	regergeese regresses remembers r	
	(2) INFORMATION FOR SEQ ID :526:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 207 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :526:	
35	CATCCGCGTG CTGGACCCCT TCACCATCAA GCCCCTGGAC AGAAAACTCA	50
	TTCTCGACAG CGCTCGTGCC ACCAAGGGCA GGATCCTCAC CGTGGAGGAC	100
	220112	
	CATTATTATG AAGATGGCAT TGGTGAGGCT GTGTCCNNNN GTAGTGGGCG	150
40		200
	AGCCTGGCAT CACTGTCACC CACCTGGCAG TTAACCGGGT ACCAAGAAGT	200

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 204 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :523:	
	AGTAAGGTTT TGCATCCTTT GATCAGCAGG TAACTGACGA ATTCTTGAGT	50
	CGAAGATTAT ACCTTGATGA GCTTTGATGA GCTCTTGCAA ACGAATGAGA	100
15	CCAGTGCTGT CATCATACAC AACCATGACG TTTTCCACTT GAAAAACTGC	150
	ACCAGGTCTA AAATGCACGC TGAGTGAAGA GAAGTCTGGG CAGAGACTGA	200
20	CATA	204
20	(2) INFORMATION FOR SEQ ID :524:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 168 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(with GROUPING PROPERTY AND	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :524:	
	ATATCTGTCT CATCATCCCA AGGTTTCACA TCTAGTAAGA TGGAAGACTT	50
35	GGCAACAAGT GCAGGTTTTT TGGCTTTCTT TGATTCATAT TGTGCAAGAC	100
	GTTCTTCCCT CAGCCTCTTT GCTTCTTCAC TTNNTCTAAN ATAATCCAAA	150
40	GAGGTCAATG TATCATCA	168
	(2) INFORMATION FOR SEC ID .525.	



	GACTNATAGN TNGACCCACC TGTGA	175
	(2) INFORMATION FOR SEQ ID :521:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 136 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :521:	
15	ATGGAATCAA ACAGCTCTAT AATGAAGATA ATGTCTCAGA AAATGTGGGT	50
	TCTGTGTGTG GCACTGATTT ATCAAGACAA GAGGGACATG CTTCCCCTTG	100
20	TCCACCTTTG CAGCCTGTTT CTGTCATGTA GTTTCA	136
	(2) INFORMATION FOR SEQ ID :522:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 200 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :522:	
	AATGGAGCAA TTCATCCAGT TCTTCTAGAA ACAGCTCAGA ATCAAAGCTG	50
35	GATATATTT GTGTCTTCTG TGACTGTTCA TTCATGGAAG GAAGCAGACT	100
	GCTTTGGGCA GAATTATTCT CCTGACTACT TGAGCTAGTA GACTAGGAAC	150
40	TATTCCATAA GAGGAAATCC TGTAAGTCTT AAATCCCCAC TGGAGAAAGC	200
	(2) INFORMATION FOR SEO ID :523:	

	AAAGAATATA AAAATCTCGT TCACCCAGTG GTAAGTGTAT TAAAATAGAT	200
	CTGTATCATA CACACAGTTT CTCCCGGAGT CGTGAGAATG ACAGGAGGGA	250
5	CCTGGCAACT	260
	(2) INFORMATION FOR SEQ ID :519:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :519:	•
20	AAGCTAATAC AATGGTCATT TCCAGACAAA TTTAAAGGAA ACACTAAGGC	50
	TGCTTCAAAG ATTATCTGAT TCCTTTAAAA TATATGTCTA TATACACAGA	100
	CATGCTCTTT TTTTA	115
25	(2) INFORMATION FOR SEQ ID :520:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 175 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :520:	
	CANGTGGCTT CAATTAAACA ATNAGGAGCC TCNNAACATC CTGTCGCAGA	50
40	AACTCCCAAT ATAAACGCCC CCANACACTA ACACAAAACA GCCTTATTAA	100
	CCAGATAAGT TCTCCACTAC CACTCCTAGA TTTGATGTAA CCCTGAATNT	150



	CTCACACTCA TACAAACGCA CATTTAAACA CGTGTGNACA NTGTACTCAG	200
	ACACACAG GTGTG	215
5	(2) INFORMATION FOR SEQ ID :517:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 181 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :517:	
	TCGCAGAGAA GGAACAATCA GGGCCATGAC AGGAACCGCA AAGAACCAGA	50
20	GGGTATAGGC AGCAAAGAAG GGCACATAAA AAGGCTGCTT CTCAGGAAAG	100
20	TGTCGCAGTG AGACAAACAC ACATACAGAC CACACAGA CCACCACCTC	150
	AATCATGGGC CCTAGCCGNC CTNGTAATAC G	181
25	(2) INFORMATION FOR SEQ ID :518:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 260 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :518:	•
	ATGTAACTCA ATCCATCCGC AAGAAAACCA AACCAACAGA AAAGGAAGCT	50
40	GAAGACATGG ACATCGCAAG CCACGCGGTA ATGCATACTT GGCACAGAGT	100
40	AGCCAATATA GAAGACGTGT GCCTCACACG GTTCACTTTG TTCATCAATA	150



	CTGNAAGAAA TGACCTGTCT NNTCTNCAGC GCCATTCCCN AACAGATGCC	200
	CTAGTCAGGA CCACAACTCT TAAACCTCAT AGCNAAATAT	240
5	(2) INFORMATION FOR SEQ ID :515:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 183 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :515:	
	CAATGCCCAA TCTGAGTGTA TACACATCTT AGGAAAAATA ATCTAANGTA	50
20	ACTTTTGAGG GTGAGAGNGG AAATAAGAGA TCACATTTAT TCAAGACTGA	100
	TCCCTATNAG GAAGGAGAG CCCAGGCACA GATACCACAA AAGAGCACAG	150
	TACCCAGCTG TCCTGGNATT GNTTGAGTGT AAG	183
25	(2) INFORMATION FOR SEQ ID :516:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 215 base pairs	
20	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	· · · · · · · · · · · · · · · · · · ·	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :516:	*
	TCGCAGCAGA AGGAAGTCGT TGACCTGGCA GCCAAGGGAA CACACAAACA	50
40	CACTCACACA CACATGCACT CACCTGCATA CACACACAC CATACACACG	100

AACACTCATA CACACANGCT TGTGCACACA TGTTCATGCA CATGCATGCA

The second section and the second sec

268

GAGCTTTGTC

210

(2) INFORMATION FOR SEQ ID :513:

5 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 222 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

10

25

30

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :513:

15	CTGTACAATC	ATCCTGCAGA	AAATTGTTTT	GGAGAATTCT	TGGTAATTGA	50
	AGACCAGCAG	AGCACCCCTC	CCCACCGCC	CCGTAAAAGT	GCTTACAATG	100
20	AACAGGGATT	CTTTTCTTTA	CAAAAGACCC	AAAGATACGT	GGACAAAAAA	150
20	AGAAAAGCTT	GAAGTCTCAA	TGCCTAATGT	GTGCACATAA	AACAGGCACG	200
	AAGAAACAAA	CGTGTGCATC	CT			222

(2) INFORMATION FOR SEQ ID :514:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 240 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

35 (xi) SEQUENCE DESCRIPTION: SEQ ID :514:

GCAGGAGAAG	GAAAAGACAG	CAACTCATCC	CAGAATTGCC	NAATGAAGAT	50
GAGGAGAATC	CCCTCAAAGG	GATCTGTGTG	CTTACAGTGG	TGACAGTGAC	100
AATCACCACC	ACTCATCACA	CACTCAAGAG	TCACCAACAC	AGCTAGCTGA	150

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 255 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :511:	
	ACTGTACCTA TCATCCTGAA AAACTTTATG GGGGAGAAAG GTCAGCAGCT	50
	TCTCTTTCTT TTNATCGAAA ATAATAAAAC TGCGTATTCT ACTTTAACTA	100
15	AATGTAAGGA AGAAAATATA CAAGCCCATA TTTAATGTAT TTCTATNCGA	150
	GCAACAATAG TTCATATGTT CATGTTTGCT ACTATCACAA TTCAACATAT	200
20	GAACACAGAT CAGCTCTATA CCATGAATAC TGCTGGAAGT GATGGTTTAG	250
20	GATTA	255
	(2) INFORMATION FOR SEQ ID :512:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 210 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :512:	
35	GAAAGATTGG ACATGATTGC GTTTATAAGA ATGAGAGTGT TAAATTGGAT	50
	TTCTTGCTTT ATTTGTGACA TTTCAGTTTA TTAGAAATCA TGTTACCATT	100
40	AGAAAAATTG AAGTTTCCTA GTAACAAAGT AATTTGATTT GTGTAACTTG	150
	ATAAAAGATT TACTGACTTA AGCTTTTGTT TTTTTTCATA AGCTGCTTTT	200

CCAGCCTTCT CCATGGTGGT GAAGACGCCA 180 (2) INFORMATION FOR SEQ ID :509: 5 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 10 (xi) SEQUENCE DESCRIPTION: SEQ ID :509: AAATGCAAAA CTCACCGTGC ACACTCCTAG ATCCCTGCCA CAAAGAAATC 50 15 TTTGAAAAAT GAAGTCTTCC TTTCGGACAA TATACCATTN GAGTTTCTCT 100 104 ATTT 20 (2) INFORMATION FOR SEQ ID :510: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 171 base pairs (B) TYPE: nucleic acid 25 (C) STRANDEDNESS: double (D) TOPOLOGY: linear 30 (xi) SEQUENCE DESCRIPTION: SEQ ID :510: 50 GTNNATACAC AACTAAGTTC AAATAAAAAA ACCAAATNAA AAATNGGCAG GGAAGCTAGA GCCAGAATCA GGAAAATCTG TTTCCTCGTC CCCAGACTCC 100 35 CGCCAAGCCT ACTCCACTAA CTAACANNGA CTCTATCAAG TTTCTATCAA 150 171 GACTTGCATC TGNATCTTGN A 40 (2) INFORMATION FOR SEQ ID :511:

265

(2)	INFORMATION	FOR SE	Q ID	:507:
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	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 281 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :507:	
		٠
	CAGGAGAAGG AAGGTTGTAC GTGGACACTA TAAAGGTCAG CAAATTGCAA	50
15	AGTAGTCCAG GTTTACAGGA AGAAATATGT TATCTACATC GAACGGGGCA	100
	GCGGGAAAAG GCTAATGGCA CAACTGTCCA CGTAGGCATT CACCCCAGCA	150
••	AGTGGTTATC ACTAGGCTAA AACTGACAAA GACCGCAAAA AAACCTTCAA	200
20		
	CNGAAAGCCA AATGTNCCAG CCGGAAAGGA AAGNGCATAC AAGGAAGAAA	250
	CCAMPCACAA CAMCCACCAC MAAACMAMMA M	001
	CCATTGAGAA GATGCAGGAG TAAAGTATTA T	281
25	(2) INFORMATION FOR SEQ ID :508:	
	(2) 11101111110111011101101	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 180 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :508:	
	AGGGNTGCTA ANNTATTGGT GGGCAGGAGG CATCGCTGAT GATCTTGAGG	50
	CTGTTGTCAT ACTTCTCATG GTTCACACCC ATGACGAACA TGAGGCATCA	100
40		

GCAGAGGGGA CAGAGATGAT GACCCTTTCG CTCCCCCCTG CAAATGAGCC

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 193 base pairs

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :505:	
10	(, ==2==	
	ACCCTCTTCT GATAAATTTG AGGGCCCGTT TGTCCTTGGA GACCTTCAGT	50
	TO SECRET OF SEC	100
	AACTCCATGG CGCGCCATCG TACGGGGCAA ANACACACCT CCCGAATCAT	
15	GTCCCGCACG AACTTGGTGT GTTTGGTCAG ACGCCCGCGT TNGGCNTGTG	150
10		
	CTGGGCTTGC TCACGTTCTT GTCACTTTGT GGCCCTTGTT GAG	193
	(2) INFORMATION FOR SEQ ID :506:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 274 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :506:	
30		
	ACATGGATAG GCGTATGCAT ACTACGCTAA GGAGAAACAA TGTTCCTACA	50
	TATTACGGGT AGTGAGAACA TTATCTGTAT AACAGGGAAC TGTGATTATT	100
	TATTACGGGI AGIGAGAACA IIRICIGIAI MIONOGOMIO POPUMENTO	
.35	TAAAAATAGC AGAACTTATT ANCTGTGCTT TAGAAATAAC TGTATACAGT	150
	GTTATAAGTT GAAAAGAACT CAAAATAACT AATAAATATA ACCTATGTAT	200
	TAGAATTAAA AAAGCTGCTT TCTGTGAAGT CAATCAGCTA TATTAAAAAA	250
40	TAGAATTAAA AAAGCIGCII ICIGIGAAGI CAAICAGGIA TATTAAAAAA	
⊶ ∪	TGACACAAAT CCAAACAAGA TGCA	274

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	. •	GCTGACCTGG CTCTCGGAAA CGCAGGAGTC TTTCTGAGCC AGCTCAGAAA	150
		cc	152
5		(2) INFORMATION FOR SEQ ID :503:	
		(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs	
10		(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
15		(xi) SEQUENCE DESCRIPTION: SEQ ID :503:	
		CCCTGACCCC TCCTCACCAC CGCGCTGCAC CTCAGGGTTA CAAGAAGAAC	50
20		TAGGAAATAA CGCCGGCCAC CNGACCCCTG GAGAGGGGCC GGCTAGAACA	100
		NTTCTAAGAT CCNGCACAGC AGGTCCCGNA TGTNGAACCT T	141
		(2) INFORMATION FOR SEQ ID :504:	
25		(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 107 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
30		(D) TOPOLOGY: linear	
		(xi) SEQUENCE DESCRIPTION: SEQ ID :504:	
35		CACACGACAC ACGACACGCA CGCAAACACG CCAGACGCGA CAGAGCGCGC	50
		GCGGGAGCGG AGCAGCGGAA GCGCAGCAGC GCACACGAGA GATAAGGGCG	100
40	•	GCCGAGC	107
		(2) INFORMATION FOR SEQ ID :505:	

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	GTGGAGCTGT	260
	(2) INFORMATION FOR SEQ ID :501:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 268 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :501:	
15	AAAGGCATAG TAAAAATAAA ATCTACGTAA GTAACAATCT AATACTATAT	50
	TAAATNCGTT GCTACAAAGT GTTTTGTTTC TCTAAAAAGT AGTTTTTGCA	100
20	TATCATTCGA CCTCTTCACC CATNTGCTGG CTTATTTGCT TTATATACAA	150
20	CAGTTAAAAT TTGTGCACTA AGCTGAGCTG CCTTCACAAT GTGGTTCAGA	200
	CAAAATGCAC CCAAAGAACT ACATGTTAAG AGAGTTTATG TCCATGCTCA	250
25	ACCATGGCTT GCCCAAAT	268
	(2) INFORMATION FOR SEQ ID :502:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 152 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :502:	
	AAAAACTCTA ATCCAGACTA CAGTTGTCGA GATTCAAGTC GTGAGTGCAG	50
40	CACCOTACAC ACTOCOGTOC TOGCACATGO ACTGCACACO CTUTAGAGAC	100

(2) INFORMATION FOR SEQ ID :499:

5 .	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 195 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :499:	
	GATNGCCACA TCTCAACACT ATACNACTCG CTNTTCGAAT TCGCCGTNTT	50
15	AGAACCGCAA GAGACCTTGA TTTAGTCACG CGAGTTCGTC TTCCTGTTCC	100
	ACANGAAAAT AAAGCTAGGG AGGTGATTTA TCTATCCGAG AAAAAAGCCG	150
20	GGGACTGGTG GAANNNGAAC AATGNTCTCT NTGTCGTACT ACAAT	195
	(2) INFORMATION FOR SEQ ID :500:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 260 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	. (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :500:	
	GCGGCCTTGG GGGCACCGGC GTGTCCTGCC CAGTGGGATT AAAAAATAAT	50
35	GCTCCCCACA TGGCGGGCCT TTGAGGTTCC AGTAAAAATG CTTTCAACAA	100
	ATGGGCAATG CTTGTGTGAT TCACAATCGT GGCATTTAAA GTGCACAAAG	150
40	TACAAAGGAA TTTATACAGA TTGGTTTACC GAAGTATAAT CTATAGGAGG	200
	CGCGATGGCA AGTTGATAAA ATGTGACTTA TCTCCTAATA AGTATGGGGG	250

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 246 pase pairs

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :497:	
10	(XI) SEQUENCE DESCRIPTION: SEQ ID .437.	
10	GAGAGTGGGG TTAGCTCTGC CTAGCGCTAC ACAAGAAAAC CTCCCTCCAG	50
	GRORO TO CONTRACT OF THE CONTR	
	TAAATNGGTG TGGGNGGTCC GCTTTTGGCC ATCATCGCAC CCCCCGGTC	100
15	ACTGGGCGTT GTTGCCGGGC ACTTGTTTNN CNGGCTGGGT GTGTACCGTA	150
	ACCGTGGGTC CTCTGACAAG TGCCTAACTC GGCCCACCCC TTAGGGTGTG	200
	TNTCATCGAA GTGTAGNGAA TGGTGGAACG TTTGTTTGTN GTGTGC	246
20		
	(2) INFORMATION FOR SEQ ID :498:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 215 base pairs	
25	(B) TYPE: nucleic acid	
23	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	<i></i>	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :498:	
	GCCCCTTTAC CAGCAAGTCC TCTACTCAGA AAGAACTGAC CCACGCAAGT	50
		100
35	CTGGGAGAGT GACTAGTTCA AATGTGCAGG GCTGAAGCTT CCAAACACAG	100
	CCACTATTTT TGTTGTATAT CTTCATCTCA ATGGCGACAT GGCCACTGCC	150
	CONCINITIT IGITATIAL CITCATCION ALGOCANCAL GOCONCIGO	
	CAAGGAACTT GTGGCAGGGA TCCCAAGGTG AGGCAGCAAC AGATGTCTGT	200
40		
	GAACATCGTG CGTTA	215

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	(2) INFORMATION FOR SEQ ID .475.	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 169 base pairs	
.	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :495:	
	ACATGACCAT CCGCATCCGC CTTTATTGAC AATGAGAAGA TGGAGTCCCG	50
15	GACGCATCTA TCCCTCTTTG GCCCTTACAG GTTTGCCACG AGAGTGAGAC	100
	GCCTTCCTGG ACCAGGGGAG GGNGNGTTGG TNCTNTGNGC GTGNGGGTNT	150
	·	
	GTGGGNGCTG CTGGGGAGG	169
20		
	(2) INFORMATION FOR SEQ ID :496:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 172 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :496:	
	CAGAGAGAAC GTTTCTATGG CTGCTGCTTC TAGGAGTCTC TCGCTCATAG	50
35	AAAAGGCACA CACTGAAAGA GGAAGCAGAT CCCATTGCTG TGGAAGTCCC	100
	ATTGTTAGGA AGCTCTGCTT TTCTGGAGTT CAAATTCGCA TTCATGATGC	150
	TTTAAACCGT CAAGCTGGGT GG	172
40		
	(2) INFORMATION FOR SEQ ID :497:	

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	·· CCGTGGGTC	159
	(2) INFORMATION FOR SEQ ID :493:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 197 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :493:	
15	GGGCAGAGNA AGAACTGTTC CACCAGGTGA ACAGTCCTAC CTGCTTGGTA	50
	CCATAGTCCC TCAATAAGAT TCAGAGGAAG AAGCTTATGA AACTGAAAAT	100
	CAAATCAAGG TATCGGGAAG AATAATTTCC CCTCGATTCC ACAGGAGGGA	150
20	AGACCACAC ATATGTNGTG CTGGGGCTCC CCAAGGCCCT GCCACCT	197
	(2) INFORMATION FOR SEQ ID :494:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 188 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :494:	
35	GATGGGGAAG GGCATCCCAA CACAGCCTGT GGATCCTGGG GCATCTGGAA	50
	GGGCGCACCA TCAGCAGCCT CACCAGCTGT GAGCCTGCTA TCGGGCCTGC	100
4.5	CCCTCCAATA AAAGTGTGAG AACTCCACTG TGTGCCCTGT CTTTGGGCAG	150
40	CCACCGCTCC TGTGAGTGGA GTCTTGAGTN GGTGAGTG	188

(2) INFORMATION FOR SEQ ID :491:

5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 263 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :491:	
	AGCCAACTAA GTTCTCTCT CGTGAAACAC AGGTCCATGA GTCGACACAA	50
15	ACACTAATGC AAGAACCATC ACGGAAAACC ACCGCAGCAG CTGAAACTTT	100
	TATAGCCCAT AAAAGGACCA AACAAGTAAG CTGAATGACT GTGAAAATAT	150
20	GACCTTCCAG AGCGGCACAT AACAGGATAT CAAATCAGGC TGATGCTTAG	200
20	CAGGCTTCAA ATATNATGGT CAAATGACTG GATTACTTAN ATGAGGCAAC	250
	TTCATATCGG AAA	263
25	(2) INFORMATION FOR SEQ ID :492:	
30	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 159 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :492:	
	AGAGTGGGGT TAGCTCTGCC TAGCGCTACA CAAGAAAACC TCCCTCCAGT	50
40	AAATNGGTGT GGGNGGTCCG CTTTTGGCCA TCATCGCACC CCCCGGTCA	100
	CTGGGCGTTG TTGCCGGGCA CTTGTTTNNC NGGCTGGGTG TGTACCGTAA	150

	(xi) SEQUENCE DESCRIPTION: SEQ ID :488:	
	ACATGGATAG GCGTATGCAT ACTACACTAA GGAGAAACAA TGGTCTACAC	50
5	ANACGTAGTG AGAACATTAT CTGTATACGG GAACTGTGAT	90
	(2) INFORMATION FOR SEQ ID :489:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 99 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :489:	
20	ACCATGAGAC CTACATCCGA ATCTGACCCA GGCAAACATA CCGGGAGCCA	50
	TACCGCACTA NCGGCTCTTC TCAAATCTCC TGGCCACNCA CCGAGNGCC	99
	(2) INFORMATION FOR SEQ ID :490:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 186 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :490:	
35	GGAAACCTGG AGGTGCGCAT CCTCGAGTGC GAAGAGAAGG TCTTCCCCAG	50
	CCCCCTCTGG ACTCCATGCA CCAAGGTCAT GGCCAGGAGC TCTTGGCAGC	100
40	TCAGCCCTGC CGCCCCAGAG CATGTGGCGG CTGCTCTCTA CCAGCCGAGA	150
40	GCTTCGGAGA TGCAGCATCT GCGGCGAATG CCCCGA	186

	(xi) SEQUENCE DESCRIPTION: SEQ ID :486:	
	TCGCAAGAGG AGACATTCTG ATCATCCTCA CTGGACGCCA CAGGGGCAAG	50
5	AGGGTGGTTT TCCTGAAGCA GCTGGCTAGT GGCTTATTAC TTGTGACTGG	100
	ACCTCTGGTC TCAATCGAGT TCCTCTACGA AGAACACACC AGAAATTTGT	150
10	CATTGCACTT CAACCATATC GA	172
10	(2) INFORMATION FOR SEQ ID :487:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 210 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	·
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :487:	
	ATGCTGCACA CTATGTCTCA CAAACTAAAT GGATCCATTA AAAGTTATGA	50
25	TTTAAAAGGC GACCACCCC AAAAGAAGTC ATAACACTCA AGGGTGTCAA	100
	TATATACAAC TGTGTAAACA CAACCAATCT ACAACTATAT CAACACAACC	150
30	AGCACTCCTC TATGGGCACA GACACACA CAAAATTGTC CTTGCTTTTC	200
	TCAGATATAT	210
	(2) INFORMATION FOR SEQ ID :488:	
3 5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 90 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :484:	
	AACATTATCT TGACAAACTG AAGAACACTT CAGTTAACAC TACCTCGAAG	50
10	AACCATCAAT GACTTGCTTT GAACAGACTA TAAAAGGCAT TCTCAAGGAG	100
	ATTAGAATGT TAATGCCACT TTGATTAGAT CT	132
15	(2) INFORMATION FOR SEQ ID :485:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 129 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :485:	
23	(112)	
	TGTGCGTGGA GACGGTGGAG AGTGGAGCCA TGACCAAGGA CCTGGCGGGC	50
30	CGCATTCACG GCCTCAGCAA TGTGAAGCTG AACGAGCACT TCTTGAACCC	100
30	ACGGACTTCT CGACACCATC AAGAGCGAC	129
	(2) INFORMATION FOR SEQ ID :486:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 172 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

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(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :482:	
10	CGGCTCAGNC TGTTGGCGCG AAGAGAGTCT AACCCAAAAT TGCAAAACTC	50
10	CCGTTGATTT CCAGGCCCTA CCACACGGCG ATGTCAACTT GTCCTCCAGA	100
	CATGGACGAC TACCAAAGAT CCCAGCTACG AAGCATGGCC TTGCTTAGAA	150
15	ACNTTTTAG AT	162
	(2) INFORMATION FOR SEQ ID :483:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 250 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :483:	
30	ATATGAAGGA GGAAATGCTC GTCACCTTCG TGAATACCAA GACCTGCTCA	50
	ATGTTAAGAT GACCCTTGAC ATGAGATTGC CACCTACAGA AGCTGCTGGA	100
	AGGCGAGGAG AGCAGGATTT CTCTGCCTCT TCAAACTCNT NCCTGAACCT	150
35	GAGGGAAACT TTGGATTCTC CCTCTGGTCG ATACCCACTC AAAAAGGACA	200
	CTTTTGATTA GGACGGTTGA AACTAGAGAT GAACGGTTAT CAACGAAACT	250
40	(2) INFORMATION FOR SEQ ID :484:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs	



(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :480:	
	AGATAACGCT CCCATCCCAG GCTAGAGACT CCATCTCTAA TTTNCNCAGT	50
	CCGTCAATGA GAGGCAGGGA CTGAAATCCC AAGTTOTGTC TCACCGGATA	100
10	TTTTCCAGGA ATGCCTCTCT TCCAAACATC AGCGACATTT AACAGACCCT	150
	GAGCAGCAAA CTTCTGCCCC AGAGGAAAGC AGAAAACCAA TTTATGTAAA	200
15	ATTAGAAGCG ATTTGCTTGA TCCATCACTN GCTTCCAC	238
	(2) INFORMATION FOR SEQ ID :481:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :481:	
20	TCGCAGGAGA AGAAATCAAC CCCTGCTTCT CAAATCCAGA CAGGCCACAC	50
30	TGGCTAGAAC TTCCACCCAG CAGTCCTGCT CCTGCCCGAA GTCTGCAAGC	100
	AAGTGAACCA CATGTCGCTA TGAAAGCACA CAGACAACAG ATTAGGGCAG	150
35	ACCTGGCAAA GATATGCCTG TCTGCCATCT TGGCCCCTGT CTGAGGGAGG	200
	С	201
	(2) INFORMATION FOR SEQ ID :482:	
40	A THE TRANSPORT OF THE PROPERTY OF THE PROPERT	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 162 base pairs

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :478:	
	AATCTACCAA CCTTAAAGCT CCCGNGATAA AGCTGTATTT CCAAAAGACC	50
10		
	TGTNTTTATT NGNNGGNGTT NGCTTTCTTT GTCATCTAGA GCCTTGTTGT	100
	ACATGCAATG GGTGGGAGAT AGTGGTACCT ACTGTTGNTT CTNTCTGTGT	150
15	NUMBER AND COMPANY CONTRACTOR OF CONTRACTOR OF COMPANY CONTRACTOR OF CONTRAC	
12	NTTCATCATG GTGTTGTCTA GGTCTCCTGA GG	182
	(2) INFORMATION FOR SEQ ID :479:	
	(2) INFORMATION FOR SEQ ID :479:	
•	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 169 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :479:	
30	AAGCCGTCGG GAGCCGCCGC CGCCATCTGA GGGAGGTACC CTGGAAACCA	50
30	COMMUNICACION DOCCONA COMO CARGO COMO COMO COMO COMO COMO COMO COMO CO	
	CCTTTCACGG TGGGGAAGTG CAGTCGCGGT GGGCAGCTCT GGGGCCACGA	100
	AACGGGAGCC TCTAAATCTT GGTCGGGACT GCTCGCCTGG AGCCGCACTC	150
	interest to the interest of to do to	150
35	TTGAGTCCGA GGCCATCTT	169
		203
	(2) INFORMATION FOR SEQ ID :480:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 238 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

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250

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :476:	
	TCTGGGCGGA AGGTGGTGCG GTGAAAGGTG CAGGGACAGA CTGGGTTAGA	50
10	GGCCACTCTT GGTCTTATCC TCCATGGCCA CAACAGAGGT GACAAATACA	100
	CGGGTCACTC AGTTACGTTT AGCCACAGCC T	131
15	(2) INFORMATION FOR SEQ ID :477:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 265 base pairs	
20	(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :477:	
	ACATGGATAG GTGTATGCAT ACTACGGCTA AGGAGAAACA ATGTTCCTAC	50
30	ATATATGGGT AGTGAGAACA TTATCTGTAT AACAGGGAAC TGTGATTATT	100
30	TAAAAATATG CAGAACTTAT TTCATCTGTG CTTTAGAAAT AACTGTATAC	150
	AGTGTTATAA GTTGAAAAGA ACTCAAAATA ACTAATACAA ATATACACTA	200
35	CGTATTAGAA TTCAAAAAAG CTGCTTTCTG TGAAGTCAAT CAGCTATATT	250
	AAAAAAGACA CAAAT	265
	(2) INFORMATION FOR SEQ ID :478:	
40	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 182 base pairs

(2) INFORMATION FOR SEQ ID :474:

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 166 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
io	(xi) SEQUENCE DESCRIPTION: SEQ ID :474:	
	TNCGTGCCTA GCAAACTTAA ACTCGAACGC ACGTAATAGT GCTCATAATT	50
15	CTNTNAAGGA CTTTAAACTT TACTCNGTAT GCTNTNTTGA TGACTCTAGC	100
	AGCCTCGCTA ACCTAGTTTA CCCCACTGTC CCCACCGGCG AACTNTTTGT	150
20	GTTAGTACGC GNGTTA	166
	(2) INFORMATION FOR SEQ ID :475:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 109 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :475:	
	TTTTTTTTA GTAACACTAA AGAGCTGTAA AGAACATTGA AGGTGGTCAT	50
35	TCCTTCAAAA CTGTGTTTTG ACCACACAG GTGGGCATTA ACAAACAAAT	100
	TCAACTTAA	109
40	(2) INFORMATION FOR SEQ ID :476:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 131 base pairs	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 262 base pairs

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :472:	
10		
	TCGCAGGAGA AGGAATGTTC CCAATAGGAA CGCCTGTAGA CTGTTCAGAA	50
	GARATGCCCA AATGAGCCAG ATGAGAAGGC TGAGGGCAGG GCTGCTTTTG	100
	GAAAIGCCCA AAIGAGCCAG AIGAGAAGGC IGAGGGCAGG GCIGCIIIIG	100
15	GCTCTGAGGA CTATAGATTT ATCCTCTAGG TGATGAGGGA CTATTAACGG	150
	CTGGTGAGTC TGGAGAACTG AACAGTGGAA GCTCTATTTT AGATTCACGT	200
	GGCAGTAGAG GATAGAGGTG TTTGGAAGCG GTGGGCAGTT GCAAGCTATA	250
20	GGCAGIAGAG GAIAGAGGIG IIIGGAAGCG GIGGGCAGII GCAAGCIAIA	250
	TGGGAGACAT TT	262
	(2) INFORMATION FOR SEQ ID :473:	
25	(i) SEQUENCE CHARACTERISTICS:	
23	(A) LENGTH: 189 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :473:	
35	ACAGAAGGAC TTTGTCTCTT TAGCTTGTTT AGCTCAATGA ACATTATCTC	50
	COCALANDO A MONGORMAN COLAGORAN MONGOCOMOS ACOMMINAMA	100
	GGCAAATGAC TCTGCTTTCT CGAAGGTCCT TCTCCGCTCC AGGTTTACTT	100
	GCATCTCTCA TACTTNNTAC AGCCAACATG AACACTCTAT GTATTTTCTA	150
40		
	AGCTTTCNTC TGTTCAAGAA CTTTGAATTT AAAACGTCT	189

	GTGTGCAGCA CCTACTTCTT NATCGCCGTG AACTGAAATC TAGATTTTAA	250
	ACTGAA	256
5	(2) INFORMATION FOR SEQ ID :470:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 109 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :470:	
	CTCAAAACGA CAATTCTGTG CCTGGGGGGAT CTGACCTGGT GAGGTAGCCT	50
20	GAAGTCTGAA TGGAGCCCAT AGTCGAAAAC AACCTAAGAA TCTCTCAGAA	100
	GAGGGTTTG	109
	(2) INFORMATION FOR SEQ ID :471:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 139 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :471:	
35	GCGGCAGTAT ACAGAAGCCA TATCAGTTGG GAAAAACTTT ATCAATCATA	50
	GAGCCTTTTG AAGAAAAATT TGCCAAGCGT GGTTTTTTGC TTGNAGACCT	100
40	ATATATAT CCTACAGGCT GAGAAAGCTT TGNATTTCT	139
	(2) INFORMATION FOR SEQ ID :472:	

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	TNATCGAGAN TITANTCTAG TAANTATATT AATNINT	87
	(2) INFORMATION FOR SEQ ID :468:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 187 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :468:	
15	ACTAGRAGIA CAGCATCCIG CIGCARARAI GATIGIARIG GCITCICATA	50
	TGCAAGAGCA AGAAGCCGAG ATGACACAAA CTTTGCCTGG TATTTGTTGG	100
20	AGCTCTCCTG GAATCACTGA AGAACTTCTG AGGATCGGCC TGTCAGTTTT	150
	AGAGGTCATA GAAGGTCATG AAATAGCCTG CAGAAAA	187
	(2) INFORMATION FOR SEQ ID :469:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 256 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :469:	
35	AGGGCACCAT TACCATCCAT CTGACATCGC ATTTCCATAG AAATGCCAAA	50
	GAAAGAAGGT CCTGGGGTTT TTCATAGAAA GCTCAAAAAG TTCAACCTTT	100
40	GATGCTATCC CCCAGCCCAA TACAAAATAC ACAGAAAAAG CAATTATTAA	150
. •	ACATCGGCTT CGTTTCTTTT TCNCCTTTGA ATNTTAATGT TTACATACTA	200

	CTACCTCTGT GCCAGGGCAG CATTTTCATA TCCAAGATCA ATTCCCTCTC	50
	TCAGCACAGC CTGGGAGGGG GTCATTGTTC TCCTCGTCCA TCAGATCTCA	100
. 2	GAGGCTCAGA GACTGCAAGC TGCTTGCCCA AGTCACACAG CTAGTGAAGA	150
	CCAGAG	156
	(2) INFORMATION FOR SEQ ID :466:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 186 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :466:	
	ACATCCCTGG AAGGAGGGCC TGAGGGCCAG GGAGGGAACA AGGCAGGAGA	50
	CTGCTGGTTC TGGTTTTGGC CACCTCACCC TTGGCCACGT CCCCTCCGGC	100
25	TAAGCCACAG CACAAAGCAG AGCCAGGCTC TGGAGGCCCA GGGCCTCACC	150
	ACTCCCCTNT GTCCCCCCAG CAGGGGGACA AAACAG	186
30	(2) INFORMATION FOR SEQ ID :467:	
30	(i) CHOURNOR OWNERS OFFI	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 87 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(a, associate in the control of the	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :467:	
	TNNNGATGAN TATANAAGCA TCATNGACGG TATTTCCCNG TCTTGNANTT	50

	(xi) SEQUENCE DESCRIPTION: SEQ ID :463:	
5	AATTCACTAT GCGTGGCCGC CACAGCTATN CTTGTCCTCC TGGATCCTGA	50
	ACCTTGNAAG CTGCACTAAT GAGTTCAACG GGAGTGCTCT GGGCCCAGGT	100
10	GTCAGCTGTA GCAATGCCCC NGCTGCAACT GAAGGNGCCA GCAATGCTA	149
10	(2) INFORMATION FOR SEQ ID :464;	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 179 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :464:	
	ATCATCAGCA GTGTTGCTCA GCTCCTACCT CTGTGCCAGG GCAGCATTTT	50
25	CATATCCAAG ATCAATTCCC TCTCTCAGCA CAGCCTGGGA GGGGGTCATT	100
	GTTCTCCTCG TCCATCAGAT CTCAGAGGCT CAGAGACTGC AAGCTGCTTG	150
. 30	CCCAAGTCAC ACAGCTAGTG AAGACCAGA	179
	(2) INFORMATION FOR SEQ ID :465:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 156 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID :465:

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :461:	
E	ACCNTGTTTA ATTANTGCGC GGGCTCGCCG TTTGCATACA ATGGCTTACT	50
5	CAGTGCTNNC AGGCTGTGAG TNAATAGAGN GTGTATGACT TAATAAGCAT	100
	TTTATCAGCG TACCTTTTTC GCCATGCGCT ACCTGCTATT GATGAAGGCG	150
10	GCTTAGGGCA TCGAAAAACC TAAAAGTCGA GCTT	184
	(2) INFORMATION FOR SEQ ID :462:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 275 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :462:	
25	AGGAACCNTG TTTAATTANT GCGCGGGCTC GCCGTTTGCA TACAATGGCT	50
	TACTCAGTGC TNNCAGGCTG TGAGTNAATA GAGNGTGTAT GACTTAATAA	100
	GCATTTTATC AGCGTACCTT TTTCGCCATG CGCTACCTGC TATTGATGAA	150
30	GGCGGCTTAG GGCATCGAAA AACCTAAAAG TCGAGCTTNG NNGTGCCGGN	200
	AACGGCTCTA NANTACTTCT CATTGTAACT AGAGTACCAT ATTCGGCCGT	250
35	NNACTGNGTT GTTGGCGACA GATGT	275
	(2) INFORMATION FOR SEQ ID: :463:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 149 base pairs	
40	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :459:	
	ACCCATGGCA AATAGGAAGA AGCTCAGTAT CGGCTCCTCC CACCATAACC	50
	CCCACTTCTC CCGCCTCCTG GACCATAGTT TCCTCCACCA TACGGTCCCC	100
10	CCATGTTCCT GCTACCACCA AAGTTTCCAC TCTCCATTGG ACCGTAGTTA	150
	GAGGT	155
15	(2) INFORMATION FOR SEQ ID :460:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 169 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :460:	
	TGCTATTTCC CTTTCATAAA GGCACACATT TGATCTTATC TTCTCTTACC	50
30	CAACACGCAG TGGCAGTGTG TATTTTCCTT CTCTTTTTTT GTTAAATATT	100
	CTGGTTTGTG GAGGTTCACA GACATGTGTT AGTATATCCT TGCCTGCATG	150
	TAGTTGTTCA TTACTAGAC	169
35	(2) INFORMATION FOR SEQ ID :461:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 184 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
_		
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :457:	
10	ACACTAACTG TTCCATCCGT TATATTTGCT GTGAGGAAAA TTAAGATTCC	50
	TGTTGTATGG GCTGCACTGT TTCTGGAAGA CTACAGAAAA TCTAACATGG	100
	TTGACACTTC CTGGTAGCCC TTCTGTACAT ACACACACA AACCAAGAGA	150
15	GAAGACAGAG AGAAAATCCT GGTCCAAAAG ATCACATGAC CTTACTAGTG	200
	TTTCCCCAAT GACTGTAATT TATAAACTAA AAATTG	236
20	(2) INFORMATION FOR SEQ ID :458:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 108 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :458:	
	GAGANNNNTT NNGGNAAATG NTTNCGCACT GNAGCTAAGA ANAGNNATGG	50
	NNNTAGGGNG NNAGANGNCN TGAACAGAGA AAGCNTGAGG GCTCTGGGAC	100
35	GCTGGTAT	108
	(2) INFORMATION FOR SEQ ID :459:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 155 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

٠.	(xi) SEQUENCE DESCRIPTION: SEQ ID :455:	
	TCGCAGAAGG AGGAACGGGG ACTTTCCATC CCCTGAACCA AGGCATGTTA	50
5	ACACTTGGCT CCAGCATGTT GTCATCATTC AACCAGAAAT CGCACAAATG	100
	CTACTGTGCC GGGGTGNAGC CAATTTTCTT AAGTAAGTGC TGACTTCCTT	150
10	AACANNTATC TNTNTTNTGG CTGTAGGGTG GCTCAGTGGA ATCCATTTTG	200
10	TTAACACCGA CAATTAGTTG TTTCACACCC AGTGGTAAGC CAGAAGGGCA	250
	TGCTCTNGGG TCTGCCCATT	270
15	(2) INFORMATION FOR SEQ ID :456:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: dcuble (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :456:	
	TCGCAGGAGA AGGAACCTTG ATGATACCAT TATCCTCACT TAGATGATGC	50
30	ACGACCCCTG CGCTGGATAC GGCGACGGTT TCTCATTTCG CCTTTGCCAG	100
30	CTCTCATTCG CTGAGGGGCA TAGACCTTTT GATATCATCC AGGCTTTAGT	150
	TTCTTAAGGA GCAAAACAGC TTCCTTGNNC TTCTTGTAGC CTTCAACTTA	200
35	TTTAAACTAC CAAGGAAGTT CAGGAACTTC CTCAANACGA TGACCTTTAG	250
	ACAT	254
40	(2) INFORMATION FOR SEQ ID :457:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 236 base pairs

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	TGGCCATCTC CAGAAAGTTT AACAAAACCC GACCAGGTTG CCCCCTTCAC	100
	TTTCTTACAA CCTCTTCCCC TTCCCCAGGG GCTCTGCTCC TCACTCCAGA	150
5	TCATCCTTTA GTTTAGAGCT GCGCAGTGAA GTGGATATCA CTGAAGGAGA	200
	TAGGACGCCA GACTACACTG	220
	(2) INFORMATION FOR SEQ ID :454:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 275 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :454:	
20		
	GCCATCCTTG ATGGAAAAGA AACTGAAGAG AAAAGACAGC CTGTGGAAGA	50
	AGCTCAAAGG TTCTTTGAAG AAGAAGAGAG AAAATATGAC ATGATATCTT	100
25	TGCTTTTGAG TTCCTCACGC TCTCTGAATN TTATTGGTTG GACATTCCAT	150
	ATGŢAGCATT CTGCTTCAAT ATTATCTATT ATGTGTCTCT CTCTCTTCAA	200
	ATANNTGCCT GTAGGTAAAA GCAAGCTCTG CATATCTGTA CCTCTNGAGA	250
30		
	TAGTTTTGCT TTGTCTTTAG CGGTT	275
	(2) INFORMATION FOR SEQ ID :455:	
35	(i) CROUPING CHADACTERICATION	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 270 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
40		

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	CTCCATTAGC TTTATGGGAC ATACGACGCA TAAAGATACT NTCCCGTGCG	50
	NATITCACAC NTGNCAGAGC TATAAACCGG TGNATGATGT GATTTTNCTG	100
· 5	TAGAATGATA TGGCCTGATA TGGAGGCCTC TTAATNGGCT TTTTCAAGCA	150
	GCAAAATGGT CTTGNGTGAG TCGTGCCGAG GCTNNNGATC AAAG	194
	(2) INFORMATION FOR SEQ ID :452:	
10	TO THE PROPERTY OF THE PROPERT	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 168 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :452:	
20	ACTICAAGCT CAACCTATTC TCGTTCTCTT TGTTAGAGGT GTATTGAGGA	50
	TAGCATATTG AGAATATATT CTCTGGTTCA AACCAAAGAT TTTGTGACAT	100
25	TAAAACTACT TGAATTTCTA CTTCATAATA GGAGTCAGTC ACTTCTGGGA	150
	CTATAGTGAT GCTTGCAA	168
	(2) INFORMATION FOR SEQ ID :453:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 220 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :453:	
40	CGATTCTTGC CCTAGTCAGA GACTATAGCA GCCCCCAGAC GTGAACCAAT	5

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		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :449:	
	ATATAAAAA GATCCGCATA ATAAACCAAA TCAGAAAATA ATACCTTGTA	50
5	ATACCTCTGT AAGAAGCAGA ATACACCATA TGTTATTCAC ATGTATAGGA	100
	GTGATAAGAA AAT	113
10	(2) INFORMATION FOR SEQ ID :450:	
	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 211 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :450:	
20	T1001T0010 000110TT11 T011T10000 1111T10T0 111TT1110	50
	TAGCATCCAG GGGAAGTTAA TCAATACGCG AAAAATACTG AAATTAAAGA	50
	GACAAGTAGA AGAAAATGAA ATAATCAAGA GATTGAGAAA AGTTGCCAGA	100
		200
25	AAGCTTGGAG AAAAACCAAG ATATGTAATT TTCGCAGAAG TCAAAGGTAG	150
	AAACTATTTG AGATCAAAGT CCTATAAACA AAGTTAAATG ATTCCAAGAG	200
	GTAAATAGGA G	211
30	(2) INFORMATION FOR SEQ ID :451:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 194 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :451:





··	CATGACTGTT TGTTTGCTCT CCTGCCCTAC CACCAAGCAA AGCAGCAGGG	150
	CTCCTGGGGG AGAGGGATTT CAACCCCCCT GATGGCAGGG GGTGCTCTGG	200
5	GGAGGAGAGA GGAGAGACA GGCTGTTTTG GAAAATATCC AGCACTTTGA	250
	c .	251
	(2) INFORMATION FOR SEQ ID :448:	
10	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 253 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :448:	
20	ACACTCCAGA NCATCCCACT AGAAAAACAA TINNGCAGGA ACGTGATGGC	50
	AACAATCAGC AGCCAATATT CTCAAGAGTT CCTAATCACC AAAAACATAT	100
25	ACAATNTAGT CTAGAAAAAT AAGTCAATTT CATAAAATAA GTTTTTAGAT	150
	CGAAAAGCAC CCCCTTCACA GGTACAGAGA TACTGAAAAA TAGTCCCTAA	200
30	AAATCTACTC ATAGTTTACG GAGAGAAAGG CATGCCATGT GAGTTACGGA	250
30	GTG	253
	(2) INFORMATION FOR SEQ ID :449:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

	TAGACCACAG GCTAATGGAA TGTCCCGGTC TGNGTCATCA NATTCTGTAA	150
	CCTGNAGCCC CCGCTGAG	168
5	(2) INFORMATION FOR SEQ ID :446:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 243 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :446:	
	AGGCAGAAGG GACGCTACTG ACTTAAGCCA AACCCTGATT GGTGGATAAA	50
20	GTATTCAGTT GTTCCATTCA TGCCTATCCT TTNTACAGCT CTCGCGACTA	100
	TAACAAACAA CTGATAAAAT AGCATCAGTC CCTCCACCAG GTTGCCCTCA	150
	AGGAAGCCAT GTTTGTGACG ATCCGACCAG TCCCTGACGA TCTCTCTAGA	200
25	CCACCCTGAC CTCGCCGAGA GTGCTGAAGG AGCTATCTAA CCA	243
	(2) INFORMATION FOR SEQ ID :447:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 251 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :447:	
40	CAGTCAGGGT CACAGAACAG TATTCAAAAT GATTGCCCAC CTGTTTTAGA	50
	AATCTAAAAT NNTAAGTAAC TAAGAGCAAA GTGCTATGTG GGTTTTAGAC	100

	CAAGGGGCGG ANGANGACCG TTTNGNTTCC TTGAAANGAG CCCCAGCTNC	150
	TCCGNGNGAG ACGCAGTGGA CTNCGATGNT TAGCNCTAGT NNCCCGCT	198
5	(2) INFORMATION FOR SEQ ID :444:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 208 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :444:	
	()	
	ATACTACGCT AGGAGAACAA TGTTCCTACA TATTATGGGT AGTGAGACAT	50
20	TATCTGTATA CAGGGACTGT GATTATTTAA AATATGCAGA ACTTATTTCA	100
20	TCTGTGCTTT AGAAATAACT GTATACAGTG TTATAAGTGA AAGAACTCAA	150
	AATAACTAAT ACCAAATATA CACCTATGTA TTAGAATTCA AAAAGCTGCT	200
25	TTCTGTGA	208
	(2) INFORMATION FOR SEQ ID :445:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 168 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :445:	
	AGEACATTIC ACTACGGGNT ATGTGCATTC TGGGCTTAGT AATGTCAAAT	50
40	CACTOTTOTO TOCAGOTTOG COATTOCTOA TTCCTTGCGG GCCTGCCCTG	100

	ACGTTTCCCC ACACCACCCG AGCTACTTTA CCAGCGATCA TGATTGTGAT	150
	GGAATAGGCT TATTAAGTTA CACATTTAAA AAGTCATTAG AACATCTCGT	200
5	TCTTGCACAC TAGTGTAGAA AGGTCTTCCA AAGATAAAAG GTGTAGGCCT	250
	GGTT	254
	(2) INFORMATION FOR SEQ ID :442:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 147 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :442:	
20	GGGGNGCTAG CAGTTGGGNG GTGTAGGAGG CATTGCTGAT GATCTTGAGG	50
	CTGTTGTCAT ACTNTTCANG NNNCACACTC ATGACGAACA TGGGGCATAG	100
25	CAAGGGGCGG ANGANGACCG TTTNGNTTCC TTGAAANGAG CCCCAGC	147
	(2) INFORMATION FOR SEQ ID :443:	
	(0) paramatan tan 302 25 01101	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 198 base pairs	
	(B) TYPE: nucleic acid	•
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
<i>33</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :443:	
	GGGGNGCTAG CAGTTGGGNG GTGTAGGAGG CATTGCTGAT GATCTTGAGG	50
40		30
	CTGTTGTCAT ACTNTTCANG NNNCACACTC ATGACGAACA TGGGGCATAG	100

	TCGCGTCTGA AATGNTNGTG TGGTAGACCA CCCCCATTCA AGCCTTCATA	200
	CTTCGTAAAA ATGCAAATGT TGAAGATCGN NTCT	234
5	(2) INFORMATION FOR SEQ ID :440:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 203 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :440:	
	GGACCAGGAA CCTAACTGAG ATAAGTTCAG CTTTCCAGTT GACACCAAGT	50
20	CATCTAGTCT TCCCGGAGTA GATATAGTTG AGGTACTCCA TTTCCCAAAA	100
	CAGAGAGCTG ATCCCGGGCT GCAACACCTC CAATAGTCGA AGCTCCCTTA	150
	ATNAAGGATA TCAATGTATT TCTTAAACGC TTGATGTCGT TCAAAGTCTG	200
25	TTC	203
	(2) INFORMATION FOR SEQ ID :441:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 254 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :441:	
40	GTGATGCACC TGACATCCCC TCACAGGCTC TTGGAGAACT GTAGTGCAAC	50
	TCACTTAACC GCAATGCTGA GAGCAGAATT CTGGAGTATG ATCCAGGGGA	100

	. •	AGGACAACAG TGGCGAAAAA ACAGATACCA AAGGAACCAA ATCAGAACAG	150
		CTCAGCAACC CCTGAATTTG	170
. 2		(2) INFORMATION FOR SEQ ID :438:	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 187 base pairs	
		(B) TYPE: nucleic acid	
10		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
15		(xi) SEQUENCE DESCRIPTION: SEQ ID :438:	
		AGAACTACAG AAACCTGGCC TCCCTGAGTT TATCCTATGG GGGGCACAGG	50
20		AAAGAGCCCT GGACCATAGA AACCAAGTAC GAGTAGCAAG AAAACCAAAA	100
20		GGGTGGGAAT GGATCAAAGG TGTGAAAACA GATCTGTCTC GTAACTGTGT	150
		AATCAAGGAA CTAGCACCAC AACAGGAAGA TAACCCA	187
25		(2) INFORMATION FOR SEQ ID :439:	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 234 base pairs	
		(B) TYPE: nucleic acid	
30		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
35		(xi) SEQUENCE DESCRIPTION: SEQ ID :439:	
		AAAAGCAACC AGGTTCGAGA AACAATAGTG TATGTGTTCC TATAGGTATG	50
40		AGTTATTCAN TGTAGATTCG TTTTTCTGCA ATCCTCTGCC GAAATGATNT	100
		ACACTTACAA TGNNGAATGC CATAGGACAC TACAATCTGA ATCAAACAG	150

	(xi) SEQUENCE DESCRIPTION: SEQ ID :435:	
	ACACTTGATA CTATGCATCA AAGGACGTGG AGAACTAGAG CGGGCTACAT	50
5	TAGTATATTT TCGTTGTCAG	70
	(2) INFORMATION FOR SEQ ID :436:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 163 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :436:	
	AGTACGCAAT GCTTTCTTAC AGTAAGCAAG AGCTCCTCTG TAATCCTTCT	50
20	CGTTGAAGGA AATGCAAGCT TTACCAAGAA GGGCTGGAAT ATTATTCGGA	100
	GACTGATTGA GTACAAAATG AAACTGTGCG TCAGCTTGAT CCATTTTGTC	150
25	ACCCTCAAGT AGG	163
	(2) INFORMATION FOR SEQ ID :437:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 170 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :437:	
	TGTGGCTGAT CATAAGAAAG GAGCAAAGAA AGCTAGAATT GAAGAAGATA	50
40		100

	CCATGNCGGC CCCCAGGTCC TCGATCTTTT CGAGCTGACT TCTCATGGCT	50
	CGATTTCCTG GTGCTTGGTT TGGTAGCTTC AAGCTGGGAT TCGAGGGTCC	100
· 5	CCGACTNTTC CACCATACAG GACCCATCGA GGAGGCATGT TCTGGTCTNT	150
	TGGATCCACT GGTGGAAGGG TTGCGCGCTG GNCAAACTGT TGGTNTAACT	200
	NGNCGTTTCC TCT	213
10	(2) INFORMATION FOR SEQ ID :434:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 221 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :434:	
	CCATGNCGGC CCCCAGGTCC TCGATCTTTT CGAGCTGACT TCTCATGGCT	50
25	CGATTTCCTG GTGCTTGGTT TGGTAGCTTC AAGCTGGGAT TCGAGGGTCC	100
	CCGACTNTTC CACCATACAG GACCCATCGA GGAGGCATGT TCTGGTCTNT	150
30	TGGATCCACT GGTGGAAGGG TTGCGCGCTG GNCAAACTGT TGGTNTAACT	200
30	NGNCGTTTCC TCTGCCGGTG T	221
	(2) INFORMATION FOR SEQ ID :435:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

228

	(xi) SEQUENCE DESCRIPTION: SEQ ID :431:	
	AAAGTGCGCT TGGGCATCCT GCCAGCCTGC CATGTCTTCA TGCGCTGGTC	50
5	GAAGGCAGCC NGGACTATGG CCAGGAGGCG AATGTAGTCA CTCAGGAGCT	100
	CAGCAAGGAG GAAGAAGTCA TTGTT	125
10	(2) INFORMATION FOR SEQ ID :432:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 222 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :432:	
	GCCTAACTGT CAAAGCACAG AAAAGTTAAC AAAGGGTGGG ACTCGCCATT	50
25	TCGAAATAGC ACATTTTAG CAATAGGCTC TCTACACTAG AGAGCCAGTA	100
	GACTGATATT CTTTAATGCC AGTTTCCTAG TTAATCGTAA AGATAGACAC	150
	AATTCCCCCC TTTATAAAAG CTTCTGTCGT TTCACATAAT GACTTTAACT	200
30	ANAANGGAAA TGGGGCAGGA CA	222
	(2) INFORMATION FOR SEQ ID :433:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 213 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID :433:

40

227

(xi) SEQUENCE DESCRIPTION: SEQ ID :429: GACTCATCTT GCCCAAGAAG AGCCAGGATA TGAGAAGATG GGAGAGGGAA 50 5 GGGGAGGTGT GAAACGTGCT GGTGCTTCCT GTCCTCATGG TGTGATGGCT 100 GCCCAGGCTG CTCCTTCGAG GCAGGACAGG ATTCCCATGG GAGATATGAG 150 GACCATGGTG ATTTCCAGGA CCAGTTATGT CCAGA 185 10 (2) INFORMATION FOR SEQ ID :430: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 277 base pairs 15 (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 20 (xi) SEQUENCE DESCRIPTION: SEQ ID :430: GGGATGCCCT GACCTGATGG CCCTTGACCA ACATGGTGCT GGAGGAGCAC 50 25 TACCTGGTCG TGGGAGTAGT GGTCATCGTG GACCCAGGGG TGATCCCTAT 100 CAACTCTTGG GGTGAGAAGC AGCGCATGCA CCTGCGGGAC GCTTCCTGGC 150 TGACCAGCTG GACCCCATCT AGTCGCCTAC AACAGCGAGC CAGCACACCG 200 30 GCCCAGGTGC CGGAGATGAA TGAGCCCCAG CAGTCCAAGG TGTGATGTGG 250 GAAGACACCG CAGAGCTCAC TTACCAA 277

- (2) INFORMATION FOR SEQ ID :431:
 - (i) SEQUENCE CHARACTERISTICS:
 - (B) TYPE: nucleic acid

(A) LENGTH: 125 base pairs

- (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

	(xi) SEQUENCE DESCRIPTION: SEQ ID :427:	
	CTCTGTGCCT CGCTGAGGAA AAATAACTAA AATGGCAAAG AAGATCCTAA	50
5	GAAGCCGAGA GGCAAAATGT CATCATATGC ATTTTNTGGC AAACTGTCGG	100
	GAGGAGCATA AGAAGAAGCA CCAGATGCTT AAGTCAACTN TAAGAGTTTT	150
	CTAAGAGTGC TC	162
10	(2) INFORMATION FOR SEQ ID :428:	
	(i) SEQUENCE CHARACTE: _STICS:	
	(A) LENGTH: 220 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOC:: linear	
20	THE STATE OF STREET ON SEC. ID 1429.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :428:	
	ATGCAGAAAA GGAGTCGTGA GCGTAACACC CTCGCTGCTG GTCATAAAAC	50
	Alochomum donolocida contrata de la contrata del la contrata de la	
25	CCATAGTTCC TGAACTCATC AAAGAACTTA ACTTCCTGAC GCCAGATATC	100
	TGCCATGCGC GAAGGGNTGA TACCACTCAG GATTATGAAT TTTGTTTAAA	150
		200
	GTCGNGTTTA CAATGATTTG NCCTGGACTG AAATTCANGC TGCCTTAAGG	200
30	TGCTGATGAT ATTGAGAAGT	220
	IGCIGNIGNI AIIGNONNOI	
	(2) INFORMATION FOR SEQ ID :429:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 185 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	GAGGAGTCAC AGTGGAACTT CCCAGCTTTA AGATATCTAG CAGAAACTAT	150
	AGCTGAGGAC TAAGGAATTC TGCAGCTTGC AGATGTTTAA GAAAATAATG	200
5	GCCAGATTTT TTGGTCCTTC CCAAAGATGT TAAGTGAACC TACAGTTAGC	250
	TAATTAGG	258
10	(2) INFORMATION FOR SEQ ID :426:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 275 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(C) SIRANDEDNESS: double (D) TOPOLOGY: linear	
10	(b) ToroLogi. Timeat	
	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :426:	
20		
	TCCACATCAT CTCCAAAGCC CATAGGCCGA GAAATGGCAT CTGAGATCTG	50
	CTGGGCCACC TCCTGTTGTT CCGTATGTCA GTCATCAGTT CATCTACCTN	100
25	GTCAATGTCC ATGTCCTGGT AGGCCTTCTT CATGCTTTGN CAGCAAGCTC	150
	CATGCACGAA GGACTTCTGC ATTGGTAGTG GCATTCTCAA TAGCCTCACG	200
20	CTGAAACTCC AGGGTGGATA ATGCCCCGTC AATTTGTGCC AGCTGCTGTT	250
30	CCA A TANAMORTO DE COMPONENCIO DE LA SACIO	
	CGAATNNTTT TCTTTCTCGT AAAGC	275
	(2) INFORMATION FOR SEQ ID :427:	
	(2) Intomitted ton Sig ID .427.	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 162 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

. •	TGCTATCCCC CAGCCCAATA CAAAATACAC AAAAAAGCAA TTATCAAAAT	150
	ACTGACTTCG GTTTCTTTTT CTCTTCAAAT NCCTATAATN GCTTTACATA	200
· 5	TTCGTATCAG CACCTA	216
	(2) INFORMATION FOR SEQ ID :424:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 168 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :424:	
20	CGACGAAGGG AGTACTCGCG CTTTGTCTCC CTATCCACAC TTGAGCAAAT	50
20	GCTCGCTGGT CTACTGCCAA AACCCATTTC ACCAACCATA TGTCCCTCGC	100
	CCATACCCC TCTCCCTCTC AAACCCTGGG GACAAATTCA AGGACCCAGG	150
25	GGTGCCCTTT TAAAAAAA	168
	(2) INFORMATION FOR SEQ ID :425:	
	(i) SEQUENCE CHARACTERISTICS:	
.30	(A) LENGTH: 258 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :425:	
40	TCGCAGGAGA AGGAGTCGCT TACTATGCAT CCAAAGGCTA CCGTGGTTAC	50
4 0	TCCTATATGA CATTCCAGAT TTTGATGACT AGCACCCACC CCACAGCTGA	100

	TGCTGGCTGT CCTATGCCAG CCTCACCCAT GTGGGGACCA CGNAAGGCAC	200
	ACTCCCTCAC CCCGGTGCCG GGCCGTGCGA TCCCCCA	237
5	(2) INFORMATION FOR SEQ ID :422:	
•	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 202 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :422:	
	AGGNGTAATA AATACTGCAT CCTTTCCACA ACATAGCAGG AATCTTATAG	50
20	GGAAATCCAT ATAGTTTCTG AACATGTATT NATATACTAA GTCTATATTG	100
20	TTTCTTTACG AAGTGTAAAT AAGTGCTGCA CCATACTGTA AACAAAACTC	150
	GAATATTGAC TAAATAAAAT CAAAAGTTCA TCTTGTAGTC ATGTCTTTCT	200
25	cc	202
	(2) INFORMATION FOR SEQ ID :423:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 216 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :423:	
40	GGGACACCAT TACCATCCAT TGACATCGCA TTTCCATAGA AATGCCAAAG	50
40	AAAGAAGTCC TGGGGTTTTT CATAGAAAGC TCAAAAAGTT CAACCTTTGA	100



	. •	TA	152
		(2) INFORMATION FOR SEQ ID :420:	
5		(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 218 base pairs(B) TYPE: nucleic acid	
10		(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		(xi) SEQUENCE DESCRIPTION: SEQ ID :420:	
15		CAGCCCTACA CTCGCCCGCG CCATGGCCTC TGTCTCCGAG CTCGCCTGCA	50
		TCTACTCGGC CCTCATTCTG CACACGATGA GGTGACAGTC ACGAAGGATA	100
20		AGATCAATGC CCTCATTAAA GCAGCCGGTG TAAATGTTGA GCCTTTTTGG	150
		CCTGGCTTGT TTGCAAAGGC CCTGGCCAAC GTCAACATTG GGAGCCTCAT	200
		CTGCAATGTA GGGGCCGG	218
25		(2) INFORMATION FOR SEQ ID :421:	
		(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 237 base pairs(B) TYPE: nucleic acid	
30		(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		(xi) SEQUENCE DESCRIPTION: SEQ ID :421:	
		GATGCCAATG TTTCATCCAC CGGCTGCACA GGCACAAACT CCCCCACCCA	50
40		GGACGACTGT GATGAGGTGG CCCTCCCTGT CAACCCTGGT CCCTGGAGTC	100
40		CCCAGCACCT GGGGCCCTGA CGGTCTCGAT GTCACAGGCG CTTACTGTGC	150

	. •	GAGCTACTG	109
		(2) INFORMATION FOR SEQ ID :418:	
5		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 202 base pairs	
		(B) TYPE: nucleic acid	•
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
10			
		(xi) SEQUENCE DESCRIPTION: SEQ ID :418:	
15		GGATGTAAAT TATATGTTGT TTAAATTTTT CCAGCATCTG AAAACCTTAT	50
		CTGCTAGACA ATGCAAGATT CACACAGAGT TATCTGGGAT TCTGATTTTT	100
20		TAAATAGTAC ATATCATTAA ACCATTCNTT CTAAANGTAA GAAGAGCAGA	150
		AAAAATCTTA TAAGATTATC AGATTTTCCT AATGACACAG AAATGNAAGA	200
		AA	202
25		(2) INFORMATION FOR SEQ ID :419:	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 152 base pairs	
		(B) TYPE: nucleic acid	
30		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
3 5		(xi) SEQUENCE DESCRIPTION: SEQ ID :419:	
		TAGCABATGT GGATTACAAG CAAATACAAC AAGTCGTGCC CCTCCAACCC	50
40		ACCACAAACT TCTAAACGCC ACTCAGCAGA TGCATAGGAT TCGTTACACG	100
		CAACGATTGA AATAAAAATA AAAGCTNCAA ATGCAATACC CANACTAGCC	150

<u>-</u> ·	GGATGCTAGT NNNCTCCACC CTNCCCACCT GTCATACCTG TGTANTACAC	150
	ACCCACCCGT ATCACGCAGG ACATGAACCA GCACCACTAA GGCCCCGGNG	200
5	CAGTGTTCTG NNNTTCTTCT CTANCTGTCT GCCCTGAGTC CCGGACC	247
	(2) INFORMATION FOR SEQ ID :416:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 162 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :416:	
	TCTAGCACAC AGCTGCGCTC ACAAAAACTG CGCGACTTGT TAGAACTAAT	50
20	TGAGTGGAGC CTGCAGGTGA GGGGAGGGAG GGGCTGCAGG TCAGGTAAGA	100
	TCTGGAAGAC AACGCACACT TGAAGGGCAG GGGACTCTAA GCAGGGATTT	150
25	ACATTGAAAG GA	162
	(2) INFORMATION FOR SEQ ID :417:	
30	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 109 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :417:	
40	CAGAAGAAGG AGAACTCATG ATTCCAGAGA GCTTTGGGGC TTATTTTTAA	50

GTACTTAGCA AAATATTTGT TTTNCGTGAT TTAGCTTGTC ATTAAACNAA

	TGGAAGCAGG AGTGGAGCTG TCAGGAAGGG CGGCTTCCCG GGCAGGCCAA	100
	CACCCACTTC TCCACCATAG TGCACTCCAC GTCATCATCT GATCACAACG	150
5 .	TCCTTCTTCA GGATCTTCAC AGCATAGAGC TCATCTGTGC CTTTCGTTCT	200
	GAAAGCATGA CCTTGCCAAA GCTGCCTTTC CCCAGCACCA TTAGGAAGTT	250
	AAAATC	256
10	(2) INFORMATION FOR SEQ ID :414:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 87 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	•	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :414:	
	TCGCAAAAGA AGNGTACCAT AACTCCTATT TCNAATGGCT GATTGTAGTA	50
25	GCACTGGAAG TTTATCAAAA CCCAGGTGTA AATATGC	87
	(2) INFORMATION FOR SEQ ID :415:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 247 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :415:	
40	AGAGGGGGAC CAATCTAACC ATCGCTCTTC CAGTCCTACC AGCACACTCT	50
70	TGCAGCGCCA TNCCACTCCC TGAGCTCAGG ATCCTAGCCC GCCCGCCCGC	100



•	AACGAAGNGT TCCTGAATAC CACAGCCTGC TGGGAAATGA CTAGGCGGTA	50
	AGGTTCTGCC ATGCCTGTGA CCCACCATGG ACATACTGGA CCTTAATTCC	100
· 5	TCTGCTTCTG TGCTCCCTCC TGAGAACCCT TTATGAGCCT GATTCCTCAG	150
	TCTCACCAGA ATTCTGGATC ACCCAAGAGG AAAAGACTGC CAGTTCTAGA	200
	TTCCTCTATA GGGAGACCTG GATTGTTGAC CAGGTGAGAA GCCAATGGT	249
10	(2) INFORMATION FOR SEQ ID :412:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 143 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :412:	
	AGAAGGAGAC AAAACACCTC CTCTGTAATA GTACCTCGAA TGGATTCAGC	50
25	TTTACTCCTC TATAACTCAT CTTCACACCN GCATATTTAA ACAAACTAAC	100
	AAAATGAAAT ACTAATAGTA AAAAGGCTGA CCCATGTGGC TTT	143
30	(2) INFORMATION FOR SEQ ID :413:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 256 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :413:	
40	GGGTCCCCCC ATTCACGTAC TCCATCACAA AGTACAGGCG GTCCATGGTC	50

(D) TOPOLOGY: linear

· 5	(xi) SEQUENCE DESCRIPTION: SEQ ID :409:	
	GCAGCACAAG AGTCATCCAT GGATACAGTT CCAATCATTA TAACCACTTC	50
10	TAAAACAAGA TCATCTTCTG CAGCACCTGG TTTTAGTTTA TCCTTGA	97
	(2) INFORMATION FOR SEQ ID :410:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 155 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :410:	
	TTTGAGCTCC TGGACCCTTC TTTGCCTACA CTGGCCTTCC TCTCGGAGGG	50
25	ACAAGGAAGC TGGCCTCCCT TTACTCTACC NTTNNTTNTG GTCCAGGGCC	100
	AGCTCTTCCG AGGCTCCAGC CTGCTTTTCG CCGGTGTCAT CAGATCATGC	150
	TTTGC	155
30		155
	(2) INFORMATION FOR SEQ ID :411:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 249 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
4 <i>0</i>		

(xi) SEQUENCE DESCRIPTION: SEQ ID :411:

(B) TYPE: nucleic acid (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID :407:

216

••	TATTCATCCA GCAGTGTTGC TCAGCTCCTA CCTCTGTGCC AGGGCAGCAT	50
10	TTTCATATCT AAGATCAATT CCCTCTTTTA GCACAGCCTG GGGAGGGNGT	100
	CATTGTTCTC CTCGTCCATC AGATCTCAGA GGCTCAGAGA CTGCAAGCTG	150
15	CTTGCCCAAG TCACACAGCT AGTGAAGCCA GAGCAGTTTC	190
	(2) INFORMATION FOR SEQ ID :408:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 194 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :408:

30	GAAGACATGG	CGCCCTAACA	CTTCGAGACC	TGCTGNTAAA	TTAAAAGCTA	50
30	TTTTTCATTA	AACCACCATT	TCCTCCACCT	ATTGGAGTCA	AATATGAAAG	100
	CTGTCGATGA	AGCCTGNCTG	GCTGCACAAG	TTNGACTGNG	TCTGAATAAG	150
35	CACTTTCATC	ATGGACTAAG	AATCCTTGGT	GTGGNCNTGA	TCTT	194

(2) INFORMATION FOR SEQ ID :409:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 97 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

	CCAAATGACT GTAAGCCAGA CTNGAAGCAT GTCAAAAAG	239
	(2) INFORMATION FOR SEQ ID :405:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 189 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	, •
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :405:	
15	GGCTATTATT CTAAGTGAAG TAACTCAGGA ATGGAAAACC AAACGTTGTA	50
	TGTTCTCACT GATCATTGAG AGCTAAGCTA TGAGGACTCA AAGGCATAAG	100
20	AATGATACAA TAGACTTTGG GACTTGGGAG GAAGAGCGGG AGTGGGGCGA	150
	GGGATAAAAG ACTACAAATA TGTGCAGTGT TTACTGCTC	189
	(2) INFORMATION FOR SEQ ID :406:	•
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 75 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :406:	
35	CACCATCCTC CAAGTAAATC CCCCCTTAGG AAAGTAAGGG AAAAGACCCC	50
	TTATAGCCCT GAGCTCCCCC TTGGA	75
10	(2) INFORMATION FOR SEQ ID :407:	
-	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 190 bas pairs	
	() +>0 NG3 PATES	

40



	214	
	CAATTATCTT CTCGACAGCA TATACAGAAT CCCCACATCT GGAACACTTC	150
	TCAGCACCTC CATANNTTGA GCAAATTTAG AAGTGTTTGG ATTTGTTGTA	200
5	GGCCTGTGAG GCTGAACACT CTCTG	225
	(2) INFORMATION FOR SEQ ID :403:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 95 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :403:	
20	AGAAGGGCA TACTCGCTGG AGACCTGGTG CCTCTATCCA CTGNACGCTG	50
20	ACTGNGGCTT CCACTGCGCC CGTGTACNTT ATCGAAGCTA CAGAT	95
	(2) INFORMATION FOR SEQ ID :404:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 239 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :404:	
35	AGGAAAATT GACATTACTT GTTAGAAGAG CAACTCTGAA AGAAAACAAG	50
	CAAATTCCAA AACAGAAAAG ATTCACAATN NAAAGGTGCA TACATTAAAG	100
	GGCCACACTG TGTAATACTG TGCCAACTTA TGCGAGTCTC ATTGTTCAGG	150

ATGAAATGTG AGATTGTAGT TTGAATGCTA TAAGCAGGTT CCAAGATACC

	TACNCTGAGG CAAGGCAAAC AGTCATAGAA CAGTTATTAA ACAATANAAA	200
	ATGTGTT	207
5	(2) INFORMATION FOR SEQ ID :401:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 217 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :401:	
	GAGGCATGGC CACATTCCAA GAAATGGAAT AAGGAGTGGG ACAGCAGGCA	50
	GGGGCCAGC CTGGGGCCTG GGCCTTTTAA TCTAAGGACT GGGGAGAACC	100
20	AAGGGACCTT AGAGGTCCTC CAGTCCTCCC CATATNNAAA GAGGGAGAAC	150
	AAGCCTGGAG AGGAGGCTAC CTTAAGACCC TAAGAAGAAT TTAGCAATCG	200
25	NTTCTCCAAA GATAGCC	217
	(2) INFORMATION FOR SEQ ID :402:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 225 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :402:	
40	TTTACAATAG ATTTCACCTT CANTTTAGTC AGAGTTGTTG ATTCAAGACT	50
70	CTTCCCACAC TCGCACATCG AAACATTTTT GTGCCAGGGC TTTCCAGCTC	100





(2) INFORMATION FOR SEQ ID :399:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 278 base pairs

212

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

10

40

5

ENCE DESCRIPTION: SEC ID .399.

(xi) SEQUENCE DESCRIPTION: SEQ ID :399:					
	TCACTTGATT CATCCGTCGC GGGATTTGGG AGCACTAGCA ACATAATCAA	50			
15	CACACTCCTA CAATCTTAGG CTTCACATGT GCTGATGATG ATGAAACCAA	100			
	CTCTGCCCCA ATCATCTCCC CTTCTNTTAG GGTCTTACTA CATATCGCAA	150			
20	CAGAAGATAA TATTGAGGTG AAGAGGGTAA CATGAAGTTT GGCACTACCC	200			
20	TGAAGAACTG TAGGCATCTC TTGGAATGTG CTAAGGAACT TGATGTCCAA	250			
	ATAATGAGAT TAAATTTATG TTTCGAGT	278			
25	(2) INFORMATION FOR SEQ ID :400:				
	(i) SEQUENCE CHARACTERISTICS:				
	(A) LENGTH: 207 base pairs				
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double				
30					
	(D) TOPOLOGY: linear				

(xi) SEQUENCE DESCRIPTION: SEQ ID :400: 35

50	TGGCTCTGCA	CACTGAACAC	AGGCACAGAG	ACAGGAGCCT	GGCCAAACTC	
100	GAGTTAGGAA	CACCTGCTTT	TCTGCTTTTG	ATTAGAGCCT	GCGGGAAGGA	
150	CACTTTTTTA	TGGGGCAGGA	GACTTCCCTT	ጥጥርርጥጥርርርል	CC2	

211

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 218 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :397:	
	GGACACATCC ACCCAGTGAA CTGGACTGTG GCCATGACCC AGGGTATCAG	50
	CTCCAAACTC TGCCAGGGCT GAGAGACACA TGAAGGAAGA TGATGGGAGG	100
15	AAAAGCCCAG GAGAAGTCCA CCAGGGACCA GCCCAGCCTG TATACTTGCC	150
	ACTTACCACC AGGACTCCTT GNTCTGCTCT GGCAAGAGAC TCTTGTCTGA	200
20	ACACTGCTTA TCTGACCC	218
	(2) INFORMATION FOR SEQ ID :398:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 250 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :398:	
	GGAAGCAAAA AAACAAAACT AAGCTCGAAT TTGCTTCCAA ACCTGTAGAT	50
35	TGCATCTAAC CANGTGTCCC TATGCACCTC AGAGTACTGG AATACGAACC	100
	CAGCGAGACC TTGTCCCCTC CCATTTTGCT GNACTTTTGT TGGTGAAAAT	150
40	GAGAATGAGT TNATCCCTAC NTACTTAGTT TAATGCATTT GACCCCAGAA	200

AACCCCAGTA CCTTTNNACA ATGACCCAAC CANTACCTAC CATCGGCCAG

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 244 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :395:	
10	AAGAGGGGCT AAGACCCAAG TCATCCTCCA CTTTCGTTTT GTTATATTTC	50
	GCTTAGAATT GCCTCTTCTT CTCCACTTCA GAACTGCCTC AAAATTGACC	100
15	CCCTTGACTG ATTTATTGTC GTCAAAAGCA TGTTCCTCTA TCTTTTNNNN	150
	TOURACGATE EGETGECTTT CTACATETGA GAATETTGTE AAGCATGGAT	200
	AAACTTGNTT TTATGTTGCA TATTTTNACG GCTTCAACTT GAGT	244
20	(2) INFORMATION FOR SEQ ID :396:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 185 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :396:	
	TAATATCGCC ATGTAATGGT ATACATTGTA AGGCTTATGT CACTAAAGAT	50
35	TTTTATTCTG ATCTTTCCAT AATAAAGGTC ATATGATACT GTATAGACAA	100
	GCTTTGCAGT GAAGTATAGT AGCAATAATT TTCGTACCTG ATCAAGTTTA	150
	TTGCAGCCTT TCTTTTCCGT TTCTTTTNTG AAGGG	189
40	(2) INFORMATION FOR SEQ ID :397:	

	AAGAAAATTG ACAAATAATA GAGGTCCTCA AGCCCACGGA CTCCTGGTCT	250
	GAGCCCAAT	259
5	(2) INFORMATION FOR SEQ ID :393:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 189 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :393:	
	AAAGATCATC AGTTTGGAAG GTACTGGTCC AATTTATCTA GGAAGTATCT	50
20	CTTGGAGTTT CAGAAATGCT AGCTTGGACA ACTGAAAAGT CACATCACAG	100
	CTGGCATTCT GGGGGCTACC AAAACACCCC TCNNGGAGTA GAAGCTGCTG	150
	GAAGGCAGGC CTGAGCCATT CACCACGGAC AGGAAGAGC	189
25	(2) INFORMATION FOR SEQ ID :394:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 97 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :394:	
	AGAAGGGGAG GTCGAAGAAA TGTGGCTGAT CATAAGAAAG GAGCAAAGAA	50
40	AGCTAGAATT GAAGAANNNN GAAAGAAACA GAGGACAAAA AAACAGA	97
	(2) INFORMATION FOR CRO. ID . 205	

	TTGCCTCACC TGTGGGGCCC CAGCAGGGAG GAGTCACCAG CCTAGAGGGG	150
	CCAGGTATAC ACCTTANAGA GGATGAC	177
5	(2) INFORMATION FOR SEQ ID :391:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 139 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :391:	
	GCTCCACTTC CCACATAANA CNAGACCTCT CACAAAAGAG TTCACTGATA	50
•	TGTGAATGCA GCTTTCTCCC CATGGTAGCC AGGACAGGGT GCACATTAAG	100
20	GCAACCCCAA AAACACCTCT TNCTGNCTGC CTCTGCAAA	139
	(2) INFORMATION FOR SEQ ID :392:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 259 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :392:	
35	GAGGAGCTGC CCTCAAGGTC GTGCGTCTGA AGCCTACAAG AAAGTTTGCC	50
	TATCTGGGGC GCCTGGCTCA CGAGGTTGGC TGGAAGTACC AGGCAGTGAC	100
4.0	AGCCACCTG GAGGAGAGA GGAAAGAGAA AGCCAAGATC CACTACCGGA	150
40	AGAAGAAGCA GCTCATGAGG CTACGGAAAC AGGCCGAGAA GAACGCGGAG	200

	ACCTACTTCT TTATGCCGTG AACTGAAATC TAAGATTTCA AACTGAAATC	250
	(2) INFORMATION FOR SEQ ID :389:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 268 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	(-,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :389:	
15	GCCATCTCCC CGCCACCCNC TCGTCCCCTT CTTNTCNNGC CACCCTTCCT	50
	CNCTCNTCCG TTTTNGCTCC ACTCCACTCC TCCNTTTTNA GTACCCTCCT	100
20	CNTTTATNTA GAGTTACTGA GAGCCGACCT GACGTCTCCA ACATNCCGTN	150
	TCTTATATCT CATCNCGGTT NTNGANGAAT GNAGTNAGGG TTTCCGGGAG	200
4	AGACCNAACT TGCTCTAGCC CTTTCCAGCC GCTGTTGTTA AACTGACCTC	250
25	GTAGGGCNTG AGGGAGGT	268
	(2) INFORMATION FOR SEQ ID :390:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 177 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :390:	
40	GTCAGAGGCA GCCCATCCAG CACGTGCTAG GTGTTCCCAT ACGCACAGGA	50
	GAGGCGAGCT AGCCAGCCAA GGCGGGCAGG CGGGGAGGCC CTCTAGCTGT	100





	GGACGAGGCG T	161
	(2) INFORMATION FOR SEQ ID :387:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 170 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESC TON: SEQ ID :387:	
15	GGTGAGCCTC CGCCATCCAG CF CAAAC TGTGC CGAC CGCAGCTGTG	50
	CCGTGGCACG ATGGCGAGGA AGCCAGCCCC AAGGACAC TGAAAACACA	100
	ACCAGTCAAT GCCGTGTGGT TTTGTTTGAA TATAAATNGC TGAAAGTGTT	150
20	GTTTTTNAG GCAGTAATNT	170
	(2) INFORMATION FOR SEQ ID :388:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 250 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :388:	
35	TCCATCTGAC ATCGCATTTC CATAGAAATG GCCAAAGAAA GAAGGTCCTG	50
	GGGTTTTCA TAGAAAGCTC AAAAAGTTCA ACCTTTGATG CTATCCCCCA	100
45	GCCCAATACA AAATACACAG AAAAAGCAAT TATTAAAAAC GGCTTCGGTT	150
40	TCTTTTTCT CTTTAATNNC CTACAATNGC TTTACATATT CGTGTGCAGC	200

	. •	CCAACCAACA GTCAAACCCC AGCGTGGTAG CACGAGGTCC AGAACCTCTG	150
		CTTAGTGGGC CCGTATAATA AACGCAACCT GACCCAATTN NGGTTTCTTT	200
5		CCCCAT	206
		(2) INFORMATION FOR SEQ ID :385:	
		(i) SEQUENCE CHARACTERISTICS:	
10		(A) LENGTH: 134 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
15			
		(xi) SEQUENCE DESCRIPTION: SEQ ID :385:	
20		GAATGCTTGG GATCATCCAG GTGNCTCTAT TTATAGGCAC CTGTGTTCAC	50
		CAGCAGTCTC TCTATTAGAA TGCTTGGTGT GCCAATGTTT CTTGAATTAG	100
		AAGCCTGGGG NCACCTAGGT GTTTCTATTA TAAA	134
25		(2) INFORMATION FOR SEQ ID :386:	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 161 base pairs	
		(B) TYPE: nucleic acid	
30		(C) STRANDEDNESS: double	
		(D) TOPOLOGY: linear	
35		(xi) SEQUENCE DESCRIPTION: SEQ ID :386:	
		CAAGGCCTTC CTGCACTGGT ACACGGCGAG GGCATGGACG AGAGGAGTTC	50
40		ACCGAGGCCG AGAGCAACAT GAACGACCTG GTGTCCGAGT ACCAGCAGTA	100
		CCAGGACGCC ACGCCGACGA ACAAGGGGAG TTCNGAGGAG GAGGAGGCGA	150

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :382:	
_	AAGCAGAGTA CGCACGTCAG GCCCTTCCAC GCCCACCCCA ACACTTTAAA	50
5	CNTACTGGGC GATGGGGCCG TTTNGCTGGC AGTTCAAGAT AAAACA	96
	(2) INFORMATION FOR SEQ ID :383:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 196 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :383:	
20	GGACTTGATG GCTTCTTTCA AAGTCATAGA CTTGTGGTAA ACTTCTTGCA	50
	AGGAGCTCTG GGCACCCTCT GAAGCAGAGC CAATTGCTCG AGCATCACAC	100
25	TGTACAAAGG TCCAGATGGG TTCATATGAA ACAGCTGGAG TCCTTTTCAT	150
	CAATNCNAAT NGANNGGTTA CTCCAAAGGG ACGAGACATG CACCTG	196
	(2) INFORMATION FOR SEQ ID :384:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 206 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :384:	
40	AAGGAGGCCT TTGAGTCCCA TCCTCTGCCA CGCAGAGAGG CAGGCCTGGC	50

ATTTCAGCCT CACTTTGTGT AGGTCACTTT TCGGTCTGTG TTGTAGCTCA

	CTGGCTCACC TGGACAACCT CAAGGGCACC TTTGCCACAC TGAGTGAGCT	50
	GCACTGTGAC AAGCTGCACG TGGATCCTGA GAACTTCAGG CTCCTGGGCA	100
·5	ACGTGCTGGT CTGTGTGCTG GCCCATCACT TTGGCAAAGA ATTCACCCCA	150
	CCGTGCAGGC TGCCTATCAG AAAGTGGTGG CTGGTGTGGC TAATGCCCTG	200
10	GCCCACAAGT ATCACTAAGC TCGCTTTCTT GCTGTTCA	238
10	(2) INFORMATION FOR SEQ ID :381:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 275 base pairs	
15	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :381:	
	GTCCTATGGC ATGAATGTTT GCAACCAACC CAGGAAAAGC CTTAAAGGAA	50
25	ATAGCTGTTC ACATAGGAGA CCGTGACAAT GCTGTACGCA ATGCTGCACT	100
	CAACACCAAG CAACGATGCA CAATGTACAT GAGGATCAGG TGTTCAAACT	150
30	GATTGGAAAT CTTTTTGAAA AGGATATGAG CATGCTCGAG GAGAGGATTA	200
30	AGCGTCAGCA AAGAGACCCT CTCTGCACCA ATAAAACAGG TGGAAGAAAA	250
	CCTAGCNCGC ACAGAACATA AGCTC	275
35	(2) INFORMATION FOR SEQ ID :382:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 96 base pairs	
40	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Toronogr. Trifedi	

PCT/GB93/01467

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	GGCAGTGCGT GCTTCATCCC TTTATGAAGA ACAGAAAATT ATGACTACTC	50
	TACARGGTGG ATARTACTTC GGTACCTTGC TTGCCACAGC CCTGTTCCTC	100
5	AAAGCTGAAT TGATAAATTT CTCTTTGACT TCCAAGACCT AGCAGTTATA	150
	AGGCGCCTTG AATAAAGTTT GTGCCTGAAA ATGTGGAGCA ATGCT	195
10	(2) INFORMATION FOR SEQ ID :379:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 210 base pairs (B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :379:	
	GTAGCCCTGA GGTCATCCTG CAAAGNGCGT ATCAAAAAAN ACGAAGTTAG	50
	GGTGACAAAG TTTGACAGTG ATGTTTACAA GTCAAACTTG GAAGGTTATA	100
25	GTAAGCATAC CTANGCTGAG AGAAAAGCAT CAAANCTNNG GNACATANTN	. 150
	GGTTTNTNGN AACAAAGCAA CTTGTAATTT AAGNTTAAAC NGAGCATCAT	200
30	ATANNNNGG	210
30	(2) INFORMATION FOR SEQ ID :380:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 238 base pairs (B) TYPE: nucleic acid	
35	(B) TIPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :380:

WO 94/01548

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :376:	
	GGGGAATCCC ACCTCACCCA TTGNGGTGAA ATGCTTTTTT CTAAGAGGTG	50
. 5	AAATCACTCG CTGGTGTTTA TTTCGGCACA ACCAGAAAAT AGTGNGGGAT	100
	ATTGAATTAT GGGAGGCTCT GACTGTCTCG NGTGCAGCTT ACATTCACAG	150
	ATGGGGGGTA GTTTTTATAT TCTATAAGCG AGCATATTAA ANGCAATATG	200
10	AGTCAGTCCT GCATTTATGT CTT	223
	(2) INFORMATION FOR SEQ ID :377:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :377:	
25	GGCTCAGGAT CCGGCATCCT TTATGCCTCC ACAGCACCTT GCTCTTTCCC	50
	CAGCCAATCA CTTTAGATGC TGAATCGATT TTAAACANAT GTTTTGTCAT	100
30	ATGGCTAATC AAGAGCCAGG TA	122
	(2) INFORMATION FOR SEQ ID :378:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 195 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID :378:



	NCCATTTGGA GCTGAGATGT GTAAGCTGGT GCCTTTAATA CAGAAAGCCT	100
	CCGTGGGAAT CACTGTCTGA GTCTTGTGTC TAGTATTGAC AGATATAGCT	150
5	TTGTTCTTGG AGTAGAATTA AGGAATTGCG	180
	(2) INFORMATION FOR SEC ID:375:	
	(i) SEQUENCE CHAR TERISTICS:	
10	(A) LENGTH: 323 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :375:	
20	GGACCATTCT GATCATCCTC ACTGGACGCC ACAGGGGCAA GAGGGTGGTT	50
20	TTCCTGAAGC AGCTGGCTAG TGGCTTATTA CTGTGACTGG ACCTCTGGNC	100
	TCAATCGAGT TCCTCTACGA AGAACACACC AGAAATTTGT CATTGCCACT	150
25	TCAACCAAAA TNGATATCAG CAATGTAAAA ATCCCAAAAC ATCTTACTGA	. 200
	TGCTTACTTC AAGAAGAAGA AGCTGCGGAA GCCCAGACAC CAGGAAGGTG	250
30	AGATCTTCGA CACAGAAAAA GAGAAATATG AGATTACGGA GCAGCCAAGA	300
	TTGATCAGAA AGCTGTGGAC TTA	323
	(2) INFORMATION FOR SEQ ID :376:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 223 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	CTCCTAGTTG TTCCACCTTG GCTAACAATT TACCAATCTT TTTTTCTATG	10
	AACACGTTCT GCCTTTGCTG CTACTTC	12
5	(2) INFORMATION FOR SEQ ID :373:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 257 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :373:	
20	AAGCGCTCAA TTCGCATCCA CAATGCAACC ACGAACTGAT TTTCTCTTTC	5(
	TTTTTCAGTT CTCCTTGGTC TGTAACAGGA ATGCCCCTTA CTCAGTAGCA	100
	GGCGGACACG GCCATGGGTC AAGACACCCT GCTTCATGGG GAAACCTTGT	150
0-	TTGTCGTTCC CACCACTGAT TCGGACCACA TAACCTTATN NNATCCCGAG	200
25	CGTTAGCAGC AACTTTTGTG GCCATACGCT TCTCATAGAA AGTACGAAGT TTGGCAT	250 251
	11000	25
30	(2) INFORMATION FOR SEQ ID :374:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 180 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :374:	
	GCATCATCAT TGACATCCCT ATCAATGTCT ACGCTGCTGG CAGAGGACTG	5.0

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :370:	
	GAGACTTAAG TAAAACGGCT GCAGGCCAGA TTCGCCCACC AGCTCAGAGA	50
5	CCACCTTTAT CCATGCTTTG AAGTAGGACT CCTTCCGTCT TCAAAATNTT	100
	GAAGACCCTA ACANGCTTTT ATGATGGGGG TCATATCTAT GGTCACGNAT	150
10	ATAGTAGAAA CCAAAAGAAT GTAAGTATTT GTNNATGATT TAAAAAAT	197
	(2) INFORMATION FOR SEQ ID :371:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 114 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	` '	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :371:	
	GCATCTGNCA GCTGCTGCAG GCTGACAGCC TCCAGACCTG GACAGAATTC	50
25	ATACACTCCC GGAGCTGAAA AAACCGAACA TAAGGGAGTG CACAAGAGCC	100
	GGGCTTTGGA GAGG	114
30	(2) INFORMATION FOR SEQ ID :372:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 127 base pairs	
	(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEO ID :372:	

CTTTCTCTAC TCCATCCATT ATCTCCGGGA TTCCTCCACA TTCCCTTCAG

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197
(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	\cdot	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :368:	
	GGTTCCCGCT CTCACAGCCA TTGCAGTACA TGAGCTCCAT AGAGACAGCG	50
10		
	CCGGGGCAAG TGAGAGCCGG ACGAGCACTG GCGACTTGTG CCTCGCTGAG	100
	GCAATACTAT AATANGCAAG GAACTTTTGA GGCCGAG	137
15	(2) INFORMATION FOR SEQ ID :369:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 192 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :369:	
	GCCATCATAA GTTCAAAAGA AAAGAGAAAG TGTTATTTTT CTGTTAGTGA	50
	CATGTAGTCC CTTTGTTCTA GTAGGAAAAA AGGTGCCTAG AGGTAGTATA	100
30		
	TAGAGTAAAT ATTGTTCCTT TGCCTACTCG TGCTTCCAAT GATTAAGGAA	150
	ATGTTAAACA NNNGTNAAAG TCTGTTTTGT CAATGCGGGA GT	192
35	(2) INFORMATION FOR SEQ ID :370:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 197 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	



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	CECHENCE	DESCRIPTION:	SEO	ΤD	:788:
(x)	SEQUENCE	DESCRIPTION:	SEQ	10	.,00.

	(xi) SEQUENCE DESCRIPTION: SEQ ID :788:	
	ACAAATAGCG ACCTCCTGGA GAAAAATCGA AAACGGCCAA GTGGATACCT	50
5	CACGTGGTTC ACGTCTGAAC AACGGCGAAT GTGAGCTACC TCAGAACCAG	100
	TACCCGAAGT TGCTGGAAGG CAACCACATT TGGTTCAAAC GAGGCGTGGA	150
10	AGAACCTCAC GACACGCTTA CGGAGTCCAT GAACGCTTGT TGCAATCCAG	200
10	GAACAATTCC GCGACACCCT TCGTCTGACA AAAAACCTTC GTGACGCGTC	250
	GAGTATCCGC	260
15	(2) INFORMATION FOR SEQ ID :789:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 208 base pairs	
	(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	•	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :789:	
	AACCCACCAT GGTGCTGTCT CCTGCCGACA AGACCAACGT CAAGGCCGCC	50
30	TGGGGTAAGG TCGGCCTGCG CACTATGCGT GAGTATGATG CAGAGGCCCT	100
30	GGAGAGGATG TTCCTGTCCT TCCCCACCAC CAAGCCCTAC TTCCCGCACT	150
	TCGACCTGAG CCACGGCTCT GCCGAGGTTA GGGGCCACGA CAAGAAGGTG	200
35	ATCGACGC	208
	(2) INFORMATION FOR SEQ ID :790:	
	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 289 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: doubl



(D) TOPOLOGY: linear

•		
5	(xi) SEQUENCE DESCRIPTION: SEQ ID :790:	
	AAAAGAAGTA CGGTAAGGCA AATCCTGAAA TTAAGAGTTA CTATGTGCCT	50
10	GAAAATACAT TGTTCTACTC ATTTAGTGTG ATGGCAATGG GCGCCGGCGC	100
10	ACTCTTGCTA TCGACCATCG TCGCGCTTTG GATGAACCGT CGTAAGTCAC	150
	AATTAATGTA GACACAACGT CGATTCTCGT GACTTATGGG GATCGCAACT	200
15	TTCGCGCCAT TCTCGATCAA CACAGCCGGT TGGTCAGTGA CTGAATTAGG	250
	TCGTTATCCA TGGGTTGTTT ATGGCTTGAT GCTAATAGC	289
	(2) INFORMATION FOR SEQ ID :791:	·
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 232 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :791:	
30	TTTCCTGTGG AAGTAGTTAA ATTGATAAAT TCCAAAAATT TGGCAATTAA	50
	TTGCTCATTA TTAATGGTAG AGTTTCCATT AATGAAGTTG GAAAATACGG	100
35	TGAATCTTTC AATGAACTCA GTTAGACATT CGGAATGAGC TTCATACATT	150
	GTCTTATTAT CTTTCTTCAA TTTATCCTCC AAATCTGGGA ATTCTGATAA	200
40	CCAAATTGAA GCACCTTATC TATGATCCGG GC	232
40	(2) INFORMATION FOR SEQ ID :792:	



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(A) LENGTH: 232 base pairs

(i) SEQUENCE CHARACTERISTICS:

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

•	(C) SIRANDEDIESS. GOGDIC	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :792:	
10	THE STATE OF THE S	50
	TTTCAACAAA CAGAAACCAA TTTCCAACCA GAGGGCGATT TCTCCTTGTC	30
	TGGTAATATC GAACAAACTA TTTTTAAGAA CTTGATTTCT GGCAACATTA	100
		150
15	AGAGCGCTGT GAAAAATTCT CTAGAGAATG ACTTACTAAC GGAGGCCATG	150
	GCGATCGCAT TAGATTCAAA TAACGAAAGA TCAAAGGAAA GTGTCAAGAA	200
		0.20
20	TGCCTATTTC GCGAAGTATG GATCTAAATA AC	232
20	(2) INFORMATION FOR SEQ ID :793:	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 292 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :793:	
	GGGAACATAT CTTCACGGTA GTGANCCCAG TGACCAGATG TCTTATACAA	50
35	GTTCAAGTTA GACAAAACGG GTGTATACAC GTGTTGGTAA CCATTGGCCA	100
	ATTCTTTGTC GGTGATGTAA CGTTCAACTT GACGGCGAAG CGATTGCCCC	150
	ATTTGGTAAC CAAACTGGCA AACCTGAACC CACTTCTTGA CTCGTAAAGA	200
40		

ACAAGTCCAT GTCACGACCA ATCGTCCGGT GGTCACGTTC TTTAGCTTCT

	TCACGACGTG CAATTCTGCT TCAACGTCGG CTTGCTTCCA TT	292
	(2) INFORMATION FOR SEQ ID :794:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 288 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(-, ,,,,,,,,,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :794:	
15	CAGCAGGCAC AACACCATCG GTTGTCGCTG AAAGTATTTT TAAGTCTTTG	50
	GCCAAGAAGT CAGTTTCAGC TAAGTTAGAC GGCACTTATG CGGGTATGCA	100
20	TGATGTCATT CCTGCATCCG ATGATTTTTA ATTAATTACA ACAACTGATG	150
	ATGAAGCGTC GAATTCGTCG CGTCATTCTG CCTCACACTC ACAGGCACAA	200
	GCCTTAAAGC ATTTGCCAAA GTTTGCTAAC ATGCACTTTG GCGCGGCAAC	250
25	CATTTATTGA AAATGGTTTC TACTATGATA CAAATAAC	288
	(2) INFORMATION FOR SEQ ID :795:	
30	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 258 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :795:	
40	GTGGCTATGT ATAAGCAGAT ATTATCTAGT AAATGTAAAG TGAACCCAAT	.50
	CGATAGACCC AAAAAGTGTT TTAACTGGAA AACACCTTAT GAGGTTTATT	100



·	TTGATGAAGT GTTGCAGTTG GTTTGATAAT TCAAGGCATT AAGGCAATAT	150
	CTCAATCACC GCATTTTCCA CAACCGGCCA CAAAACAGCT CGTCTATTTC	200
5	GAGGTCAGTT ACGGCGTCCA GTCTTTGAGC AGATGATTTG CCCCGAGTGA	250
	TCGTCGGC	258
10	(2) INFORMATION FOR SEQ ID :796:	
10	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 270 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :796:	
20	TGCTTCAAAG CCTGGCTTAA CCCGCTTGCC CACCAACTTC AATTATACCT	50
	GCCCCTTTGC CTARCATCTC ACCGACTCGG GCAACCATCG TATCAACACC	100
25	CGCGACTCGA TCCCCATCGT AAAATGATTC CGAACTAACA TTTAACACAC	150
	AATAGATAAT ACCATCAGCA TAATGCAAGG TTTTACCATC CACGACCCAG	200
30	AGGCGATCAA TCGCGACTAA CCGTCGTTGT AATTCAGGAC TAGCGGTACG	250
30	CTCATGTAAC GCGACAATAT	270
	(2) INFORMATION FOR SEQ ID :797:	
35	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 210 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
40		



(xi	SEQUENCE	DESCRIPTION:	SEO	ΤD	.797.
12-	, 525051465	DESCRIPTION.	250	12	. / 7 / .

	(xi) SEQUENCE DESCRIPTION: SEQ ID :797:	
	AAATATCGCT GCGTGCAGCT GAGTTACTAG CTGTTGAAAC TTATCGTTAC	50
5	TTGTGTAGGT TGTCTGAAAC GGTCGCAGTC ACCGGTTAGC TTGATAAGTC	100
	AGGTTTTCAG CAACTGTCAT CAAGCCATCA CGACCTATAT AAGCCACTGC	150
10	AATCGCACTT TACATCATTA AGACCCTTAC TAGAAGTAAC TGGCCATCCT	200
	GCCACCGCTT	210
	(2) INFORMATION FOR SEQ ID :798:	
15	(i) SEQUENCE CHAPACTERISTICS:(A) LENGTH: 218 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(b) Torobodi. Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :798:	
25	ATCATAAGCG CTGGAACTTG GGGCATTGTA CAGGGACAAC TTCGGCCTTT	50
	GTTÄGCCCCA AGAGTCTACA CTCTGCCAAT GGTGCGCTCC ATAGGAAAAA	100
30	CCACGGTCCA AGGCAAAAAC TACGAACCTC AGATAACCGC AAAGAGGATA	150
	TCAACCAGAG GACGGAAATG TAAGCCTATT TTAGCCCAAA TAACGAGACA	200
	AGTAGTTGAG CTAAATGC	218
35	(2) INFORMATION FOR SEQ ID :799:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 176 base pa es	
40	(B) TYPE: nucleic and	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	



	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :799:	
	CCTATCAGAA TCCAATGAGA ACTACAATGG TGTGCCCAGA CGTAGAGCTG	50
5	AGAATAGCAT TACCAAATGG AACAACGTGC TACAGTCAGG ATTAAAAAGA	100
	ACAATACTAC AAACCAAGTA TATCAGGCTA TTATAGCAAA GGCTGCCATG	150
10	AACAATACAA CACTGAATTA CTCGGC	176
	(2) INFORMATION FOR SEQ ID :800:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 254 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :800:	
25	GCAATTGCTT AATTTGTTCT TCCTTCTTAG CATTTTGCTG AGAAGCCAAA	50
23	CGTTGCGCCA ATTCAGAAGA TTCACGCCAG AAGTCGTAGT TACCAACGAA	100
	TGGTGTGATC TTACCAAAGT CAACATCCAA GATGTTGGTT GACACGGCGT	150
30	TTAGGAAGTG ACGGTCGTGG GATACCACAA TCACTAGGTT CGGGAAATCA	200
	GCCAAGAAT CTTCTAACCA GTTAATTGTC TGCACATCCA GACCGTTGGT	250
35	TCGA	254
33	(2) INFORMATION FOR SEQ ID :801:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 203 base pairs	
40	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	



	(xi) SEQUENCE DESCRIPTION: SEQ ID :801:	
5	ATCCAGGCCC ATACCCATCA ACCCTGAAAC AACGATTGAA TCACCAGCCA	50
	TTTAACCACA CATTGCAACA AACTCACATT GGGTTCCGAG CGGCAGTAAT	100
10	AACACAGTCG ATCAAACGCA AAATAGATGG GCAATAAGGT CGATACAAAT	150
10	AGGCAACCTT ACAATTACCA CGATCTGTAG CTATCGTATA ACCAATGAAA	200
	ATG	203
15	(2) INFORMATION FOR SEQ ID :802:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 193 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :802:	
	GACACAACTG TGTTCACTAG CAACCTCAAA CAGACACCAT GGTGCACCTG	50
30	ACTCCTGAGG AGAAGTCTGC CGTTACTGCC CTGTGGGCTA GGCGAACGTG	100
	GATGAAGTCG ATGGCGAGGC CCTGGGCAGG CTGCTGGCGA TCTACCCTTG	150
	GACCCAGAGG TTCTTTGAGT CCTTTGAGGA TCTGTCAACT TCC	193
35	(2) INFORMATION FOR SEQ ID :803:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 290 base pairs(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

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•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :803:	
5	AACAAAAGTT GAAAATTTTA AATGGTCTTT TTATGGTTTG CGTGACCTAA	50
3	AAAGACAAAG TTTATCCTTG CCTTACTGTA TAGAAATGCG TCGTATCCAC	100
	AATAGCGTAC AGATTTTTCC GCATTAATCC GTGTTTATAT TAACAGATTC	150
10	GTTAAGTATC GTTTAAAAAG GGAGAGAGGG GATACCCTCT CTCTAGATAA	200
	ATGGGTCATC ATTTAATCCC AAGAATGATG TCGATAAGTA CTTTTCTAAA	250
15	CGATAACAAG AACCCCAGTA GGTAGTATAG CAGTCTTTAA	290
15	(2) INFORMATION FOR SEQ ID :804:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 256 base pairs	
20	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :804:	
	AACTTGATGG TCGAGGCCAT CTCCTGGGCC GCCTGACGAT ACCGTGGCTA	50
30	AACAGGTACT GCTGGGCCGG AAGGTGGTGG TCGTACGCTG TGAAGGCATC	100
	AACATTTCCG GCAATTTCTA CAGAAACAAG TTGAAGTACC TGACTTTCCT	150
35	CCGCAAGCGA ATGAACACCA ACCCTTCCCG AGGCCCCTAC CACTTCCGGG	200
	CCCCCAGCCG CATATTCCGG CGGACCGTGC GAGGTATGCT GTCCCACAAA	250
	ACAGGG	256
40	(2) INFORMATION FOR SEQ ID :805:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 286 base pairs(B) TYPE: nucleic acic(C) STRANDEDNESS: double(D) TOPOLOGY: linear

5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :805:	
10	AGCAACCTCA AACAGACACC ATGGCGCACC TGACTCCTGA GGAGAAGTCT	50
	GCCGTTACTG CCCCTGTGGG ACCAGACGAA CGCGGATGAA GTCGGCGGCG	100
15	AGGCCCTGGG CAGGCTGCTG ACCGATTTAC CCTTGGACCC AGAGATTCTT	150
	TGAGTCCTTT GAGAATCTGT CCACTTCTGA TGCTGTTATG GGCAACCCTA	200
	AGACGAAGGC TCATGGCAAG AAAGTGTTCG GTGCCTTTAG TGATGACCTG	250
20	GCTCACCTGG ACGACCTCAA GGGCACCTTT GCACAC	286
	(2) INFORMATION FOR SEQ ID :806:	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 291 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :806:	
35	TTCTTCATCA GATTTTACAT CTGCCTGATT AGAATCTTCT ACACTGGCCT	50
	CAGAAGATGA TTGTTCAAAA CTTTTTCTAA GTTGCTGTAA AAAAACTTCC	100
	ACGGACAAAG TAAAATGCAG TTÇTTTATCG TTTAGCCAGT GTACAACAAA	150
40	AGGTCCAATC TTCTCTTCAT TTTAATTCAG ACTCAGAGAT GTAATAGATG	200
	GAAGAAGTGA AATGTCTGTG GCTGGGTTGA TGCTGGCTGC AATATGAAAG	250

	TGGCAAAGTG CATTGCTATG CAGTGGAGTG TTACTGTGGA C	291
	(2) INFORMATION FOR SEQ ID :807:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 276 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :807:	
15	AGTITAATCA GCTGCAATGA AAACAAACGT CTTTTATTAG GCAGAATCCA	50
	GATGCTCAAG GCCCTTCATA ATATCCCTTA ATTTAGTAGT CGAACTTAGG	100
	GAACAAAGGA ACCTTTAACA GAAATAGAAC AACAAGAAAG CGAACTTAGC	150
20	GATACTCGCG GGCCAGGGCA TTAGCCACAC CAACCACCAC TTTACGATAG	200
	GCAACCTGCA CTGGAGGGGC GACTTCTCCG CCAAAGCGAC GGGCCAGCAC	250
25	ACAGACCAGC ACGTCGCCCA GGAGCC	276
	(2) INFORMATION FOR SEQ ID :808:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 218 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :808:	
40	GGCCTGCCAA CAGCATAGGG AAGAATCTCA TTGTTATACA TATTAAGAAT	50
	CGATTCTAAA TAGACCTTTT TACCAGTCGC TGAAACTCTT AAATTAAGTA	100

	ACATCGCTAG CTAATTTTCG TAATGGCCGA TTAATCTTGA AACG	GCGGCG 150
	AAGCTTGTTC TTCACACGTT TCCCTTCAGG TCCTTTGATG AATC	ATACTG 200
5	ACGTGATCGC TTATCGTA	218
	(2) INFORMATION FOR SEQ ID :809:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 276 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :809:	
20	AGCAACCCAG CGCTCAATGG TGCTAGTGAA CACAGTTGTG TCAG	AAACAA 50
	CCTCAAACAG ACACCATGGT GCACCTGACT CCTGAGGAGA AGTC	TGCCGT 100
	TACTGCCCTG TGGGCAAAGG CGAACGCGGA TGAAGTCGGC GGCG	AGGCCC 150
25	TGGGCAGGCT GCTGGCGATC TACCCTCGGA CCCAGAGGTT CTTT	GAGTCC 200
	TTTGGGGATC TGTCCATTAC TGATGCCGTA TGGGCAACCC TAAG	GCGAAG 250
30	ACTAATGGCA AGCAAGTGCT AGACGC	276
	(2) INFORMATION FOR SEQ ID :810:	
35	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 199 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :810:

•	GACTCCACCT GAACGGGCCC CTTCTGAACC GCCTCTGTGG GAGCAGGCCC	50
	CATCTGAGGA GGGTCCATCT GAGCAGATCC CTTCTCAACA GGTTCCTTCT	100
5	GAGGAGGCTT ACTGCTTTTC TTACTCGATT TATTTTTCAG AGTTTTCTTC	150
	TTCGTACTTT TTTTAACGCA AGTATTTTGC TTTTTATTCT CCTCCATTT	199
	(2) INFORMATION FOR SEQ ID :811:	
10	ALL CROUDINGS OUNDACTEDISTICS	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs	
	(A) LENGIH: 254 base parts (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
13	(2) 10.02001. 11	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :811:	
20		
	AAACAGCACA ACCAATGACA GGATGCAAGA ACTGATAGGG CGCCGCAAAA	- 50
	AAAAAGCGGG CCAAAGATGA AGTAAATAAA CGTAAGGGAG GTACCGAATC	100
25	TGGGGGGCTT GGCGTAGAGT AAGGGAGAGG AGCTTCAACT ATCTCAATAA	150
	GGGCAAGAAA ACACAAACAA CTCCTTCATT CGTCCAAAAT GCTTCTGAAT	- 200
		250
. 30	TGCACCACAA TTGACACACA CACACCTCAA AGCAGAATCC GCACTGACCT	250
30	AAGT	254
•	ANUI	234
	(2) INFORMATION FOR SEQ ID :812:	
	(2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 284 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

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(xi) SEOUENCE	DESCRIPTION:	SEO	TD	:812:
1	, obgoditor	DESCRIPTION.	350	10	

	("")	
	TTTTTTTTT AGCAATGAAA ATAAAAGTTT TTTATCAGGC AGACTCCAGA	50
5	CGCTCAAGGC CTTTCACAAC ACCCCCCAAT TTAGCAATAG ACTTCAGGGA	100
	CCAAAGGACC CTTTAACAGA AATAGAACAA CAAGAAAACA AACTCAAAGA	150
10	CACTCGAGGG CCAGGGCCTC ACCACACCAA CCCCCACTTC CAAACAGGCA	200
	ACCTGCACCG GAGGGGAGAC TTTTTCGCCA AAGCGACGGG CCAGCACACA	250
	GACCAACACA TCGCCCAGGA ACCTGAAGTT TTCA	284
15	(2) INFORMATION FOR SEQ ID :813:	
20 .	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 279 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :813:	
	ATACAACAGC AGAAACAGGT ATCCACGCAC AGTCCAGCAA CATTTCTTCT	50
	GGTACAACGC AGCTTCAAAG TTCACATCAA ACGTTACTTT GTCATACCAA	100
	GGCAAGGATG CTAACTCGAA GTCAATCACG CGAGTGATGT CATTCACAAC	150
	CGGTCACGGT GCCGATGTGA CAATCAAGAC TGAAGGCGAT GACGAAGAAG	200
35	CAGCACTGCC CGCCGATAAC CGCAGCGATG CAAAAAAAAG AGCTAGACGA	250
	CTGACGAAAC CTGAGAACCC CGAAGGACT	279
	(2) INFORMATION FOR SEQ ID :814:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 208 base pairs

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40

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	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :814:	
	NACES COMES TO THE PROPERTY OF	50
10	AACGTGCTGG TCTGTGTGCT GGCCCATCAC TTTGGCAAAG AATTCACCCC	50
10	ACCAGTGCAG GCTGCCTATC AGAAAGTGGC GGCTGGCGTG GCAACAGTGA	100
	ACCAGIGEAG GEIGEEINIE AGAAAGIGGE GGEIGGEGIG GEAACAGIGA	100
	CTGAGAAGAC CAAAGAGCAA GTGACAAACG CCGAAGGAGC AGTGGCGACG	150
		-
15	GGCGTGACAG CAGTAGCCCA GAAGACAGCG GAGGGAGCAG GGGGCATCGC	200
	AGCAGCCA	208
	(2) INFORMATION FOR SEQ ID :815:	
20	•	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 192 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	·
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :815:	
30	(XI) DIGOLAGI DIGOLILIZAN DIG ID FOID	
	AAACCACGCT CAGTCAGGTT CCGGCAGCAG CTGCAGCATC TCATCTTCTG	50
	CGACTCTCGG TGCCCTCTCC TTCCGATTTC CGGAAACATG GCCTCCGATG	100
35	TGGCTGTCTC TGACGACGTC ATCAAGGTGT TCAACGACAT GAAGGCGCAC	150
	AAGTCTTCAA CGCCAGAGGA GGTGAAGAGG CGCAAGCAGA TA	192
	(2) INFORMATION FOR SEO ID :816:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 264 base pairs

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :816:	
10	GAGAGAACCC ACCATGGAGC TGTCTCCTGC CGACAAGACC AACGTCAAGG	50
	CCGCCTGGGG TAAGGTAGGC GCGCACAATG GCGAGTATGG TCGCAGAGGC	100
	CCTGGAAAGG ATGCTCCTGT CCTTCCCCAC CATGTGAGAC CTACTCCACA	150
15	CACTTCGACC TGAGCCACGC CTCTGCCAGG TTAAGGGCCA CGGCAAGAAG	200
	GTGCCCGACG CGCTGACCAA CGCCGTGCGC ACGTGGACGA CATGCCCAAC	250
20	GCGCTGTCCC CCTG	264
	(2) INFORMATION FOR SEQ ID :817:	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 202 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :817:	
	ACCCTACACA CATCCGTTCA ACTGTCCCAT CACCCACTTA CACTCCAAAA	50
35	AAAACCACTC AACAAGCAAA CAACCCATCC TGTTTTCATA ACGTTATCGT	100
	AAC AAAG CCGACCATAA TCAACTTGAA TTTACTTCAC CACAAGGCAA	150
40	AGCGATTATT TAGATGAGGC ACTCGCACTA CTGCTTGAAG TGCTACTAGA	200
	TG	202

(2) INFORMATION FOR SEQ ID :818:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 179 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

10

5

(xi) SEQUENCE DESCRIPTION: SEQ ID :818:

	AGTAGAAAAT AAGTTCA	AAA TTTTAGAAAT	ACTGGCTTTA	TACTCGCCCA	50
15	TGTATTTACA TTCACAG	AGA TCTTTATTT	TTTACAAGCG	CTTTGAGTTA	100
	CTGTATAGTT TTTTTTA	ACA AAAAAGCGTG	GGGGGCTCCC	TTTAGCATTC	150
20	CCCATAGGAT AGGTAAT	GAA CTTTTTGTT			179
20	(2) INDODUNTION DO	D 650 ID .010.			

(2) INFORMATION FOR SEQ ID :819:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 260 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

30

25

(xi) SEQUENCE DESCRIPTION: SEQ ID :819:

	TGTGCTCTTA	TGCTAGATTT	ACGGACAGAT	TTTCTTCTGC	CCTGTAAACT	50
35	AATAGCATAG	GAGCATTTTT	TAATACGATT	CGATACAAAA	AAGAATTTAA	100
	GCAATCTCTC	GCCGAGACGC	ACAATCAAGA	CCATTCATAT	ACTGATCTAT	150
40	CCGCTGAATA	CGAACCTTCA	ATCGACTCAA	TCCGTAACTG	GATCAAGTTG	200
40	TACGCGGGTC	CACGAAGTGA	CAGACGAAAA	ATGAACGCAA	GCTGATGTAA	250

	ACGCATCACA	260
	(2) INFORMATION FOR SEQ ID :820:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 226 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :820:	
15	ACTCGGCACT TTCTTAGAAT AGACAATTTG CAAAATGTCC ATCCCAGGTT	50
	CATCCTTGTA GCCTAATGTT TCCGTCACCG TTGCCACTAG TTAACGTGGG	100
20	TGAACTTTAT CTGGGAAACG GGTAACATCC GCGACCACAA CTAGACCATC	150
	ATTTGACGTA ATGCCATCAG CACTCACCAA AACTTGGCCA ACCAACAGCC	200
	TTTCCGTAAC TGAGTTTGAT TTCTCC	226
25	(2) INFORMATION FOR SEQ ID :821:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 197 base pairs	
30	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :821:	
	CACCTACATA TAGATGCACG AAGTACTTGC TCACTTTTTT TGGTTGTAAA	50
40	TTTTCAAAGC GTTGAAGGCA GCATTCTTAG CGGCACGGAT GTCCTTATCA	100
	GTGAATGAAT CAGGCTTTTC CATGGCCAAC CAACCAACGA TTCGCATCGC	150

	GTGATTTCGA ATCATGTCAA GCAAAGCACC GGCTGTATCA TAGTAAC	197
	(2) INFORMATION FOR SEQ ID :822:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 304 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :822:	
15	GGACTGGGTG CAGTGGCTCA CACCTCACGT TACATTTTAT AGCTAGCAGG	50
	GTAATGGGGA GTTATGGCAC TCAGGTCACA TTCTAGGGAA TGTTTATCGG	100
20	GCAATCTCAA TGGCACCGCA AGCTAAATGA CTTCCAGTGT TTCTCATCTT	150
	TGCGCTTTCT TCATCGCAAC CTTTGCCCAA GACATCTGTT TTTTCTGGAT	200
	CACCCTTGCA CAGCCACTGA GGAATGATCT TCTGAAAGTG AATCTTCAGT	250
25	AGACACATCG CCACACCATC TANGTCAGCC ATCACATGCC CAGGTCTNGA	300
	CATG	304
30	(2) INFORMATION FOR SEQ ID :823:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 197 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :823:	
40	GGCCCAGCAG ANGGAGGAAC ACTACCGAGG CTCCAGCTTA ACGGTATTTG	50

	GAGGTCAGCA CGGTGCTCAC AGAAGCCAGG AACTTGCCCA GGGAGGCGTG	100
	CACCAANGGG GCGAACTCNC GGGGAGGCGG GCGACCAGGG TCACCAGCAG	150
5	GCAGTGCTTA GGAGCTGGGA GCCGACCGAG CCCACCGAAC TCGCGCG	197
	(2) INFORMATION FOR SEQ ID :824:	
10	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 281 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :824:	
20	AAAAACAATG TCATTTTGTA CAGACAAAAT TTAGCAGACT CAAGCTTCCA	50
	CAGTTAGTGC GAGAGCCTGT GGATGGCATA GTTACATAAG AGTCTGTTGT	100
25	GGATTCAAAT GTCACCTCTT CCAGGCAGTC TTTCCTGACT TACCCTGGCA	150
	GCTTTGTGTT CCCACATTAC TAGTAATGTT TTTTTCCTTA ATAGCAATGA	200
	TTTCACTGTA ATAATGTATT TATATGCCTC TCTCCCCAG ACAGCAAGCG	250
30	TTTTCCCACA GGTCTCGACA CACAGAAGAT A	281
	(2) INFORMATION FOR SEQ ID :825:	
35	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 312 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
40	•	

(xi) SEQUENCE DESCRIPTION: SEQ ID :825:

	TATTAAATTT ACTAGAATGT TACAGTTACA AATTTGGTAA TGTTCTTTCT	50
	GAAAAACAGC CTAATTTTGC AGCCTGAAAC TTGACTGAAA ATCTCAATAC	100
5	TTTTATTCAT GATAGAAAAA TAATTCCTGG CTTCATCTCA CAATTAACTA	150
	ATAATTATGT TAATATAAAA TATAACTGTG CCCTTTCTTT TCAGTGATGA	200
	TCARAGTGAT TCTCCCAGGC CAAAAAATCA AATAAGAAGT TATATTTTAA	250
10	AAAGACATAA CAAGCCATTC TACCCAGTGG GCATCTTCAG TGTACTCCCT	300
	CTACTAATTG GC	312
15	(2) INFORMATION FOR SEQ ID :826:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 189 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :826:	
	ACACCAAACA CGGGGAGTGG GGAGTAGAGG CTCTGGAGGT CAGGATGGCA	50
	GGGCAGGGAG GGGAAGGAAG GAGTTGTTGG TCTCACAGTG TGCCTGCCAA	100
30	TCCCAAAGCC CTAGAGACCC CTTCACTGCA GCACCTGCCC CCGGGTCTCA	150
	GGCAGCTTCA GGGCCAGAGA GCTGCCAAGG GCAAGCAAA	189
35	(2) INFORMATION FOR SEQ ID :827:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 232 base pairs	
40	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :827:	
_	CTCTTAAGGG CTTGAAAATT TCTGTGGGAG TAGGACAGAG TGTAGAACGT	50
5	ACAGTAAAAG GCAATAAAAC AGTGGGAATA ATTTTACCAG CTATGAGTAA	100
	AGGAGTAATG GGTATTTACT GCCTGTCATT AATCCACACA TATATCCATT	150
10	TTAGAGATTA TTTTGTTGCC TGGAAATCTG TCTCATCACA GAGTGTTAAT	200
	ATACACCGGC GGGATATTCA AGAGTGGCTA AG	232
15	(2) INFORMATION FOR SEQ ID :828:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 282 base pairs(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :828:	
	GGACATTGGA ACACTATACT CTATTATTGC GGTCGTGCCT AGCAGTCTCG	50
	CGCATGTCTC CTCAGCGCGC ACAGTCTCTC TCAGAGAGCT CTTCTCTTT	100
30	TATATGCGCA GACCCGCAGA CTGGGAGACC CAGACCCAGG GCAAACTCTC	150
	TTCTTAGGTA TATCGCACCC ATCATATCTC ACACATCGTG TATGTCGTAT	200
35	CATCAGACCC CCATAGAGCA TATATGCTAA ATTAATGCTC TCTTTCATCA	250
	GTAATTACCC CATATCATAA AATGCGGGCG GG	282
	(2) INFORMATION FOR SEQ ID :829:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 230 base pairs	

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(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5 (xi) SEQUENCE DESCRIPTION: SEQ ID :829: CACTACATCC GCAAGTACAA CCGCTTCGAG AAGCGCCACA AGAACATGTC 50 TGTACACCTG TCCCCCTGCT TCAGGGACGT CCAGATCGGT GACATCGTCA 100 10 AGTGGGCGAG TGCCAACCTC TGAGCAAGAC AGTGCGCTTC AACGTGCTCA 150 AGGTCACCAA GGCTGCCGGC ACCAAGAAGC AGTTCCAGAA GTTCTGAGGC 200 15 230 TGGACATCGG CCCGCTCCCC ACAATGAAAT (2) INFORMATION FOR SEQ ID :830: (i) SEQUENCE CHARACTERISTICS: 20 (A) LENGTH: 226 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID :830: 50 TTCCGCAAAT AAAAGAATTC ACTAAGGTAC CAAAACAGAA AATATACAGA 30 GATCAATGAC TTTCATATAC ATTAACAAAC AAAAGTTCAG AGATAAAATG 100 GAAGAGAAAT GCTGTTTTTA ACAGTATAAT TAAGATAAAA TATGAAGGTA 150 35 TAAACTTAAC AAGAAATGTT GCAAAACCAT TATGTGAAAA TTACAACACT 200 CCTGAAGACG CAGACACACC TAACAA 226 (2) INFORMATION FOR SEQ ID :831: 40

(i) SEQUENCE CHARACTERISTICS:

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(A) LENGTH: 247 base pairs(B) TYPE: nucleic acid

·5	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
J		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :831:	
10	AGAAGTCCTT CCAAGAGTCT TGGGTATGCA ACAGCCATGG AGGCTGTGAC	50
	CTTTTCCTT CTTTCTACA GCCTGCAGTT CATTTAAGGA TCACCGGAGA	100
15	TGACTCGTGC TCTAGTTCTT AAAATCAAAC AAGGATCTGC CAAATCCAAG	150
13	ACCCTGAATT TGGCCCAAAT TTGTAGAAAC ATTGCTTTTT ACCACCCGGT	200
	GCACCAAAAA TACCTCCCAT TTCAAGGCAA CAACCGCTTT AATTGCT	247
20	(2) INFORMATION FOR SEQ ID :832:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 112 base pairs	
25	(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :832:	
	CACCAGGCAG GGGATCCCGG AGGGAAGCCC TCTGCCAGGG ACATGGTGAG	50
	GGCGTGGCCA TCACCCACGA AGGGAGCATA AATAACACTG GCAGGTGGGT	100
35	GGGCAGCAGG AG	112
	(2) INFORMATION FOR SEQ ID :833:	
40	(i) SEQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 173 base pairs	
	(B) TYPE: nucleic acid	

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(C) STRANDEDNESS: double (D) TOPOLOGY: linear

•		
5	(xi) SEQUENCE DESCRIPTION: SEQ ID :833:	
	AGCCATTCCC ACTAGAGGCC AAACCGCCTG CCCACAGAGA TTGACAGCCA	50
10	ATGTTCATCT CATAACTCTC CTCCCAGCAG TGCACCAGTA AACTCAGATG	100
	CCTGAGTGCT TGTGGCCACC ACACAACAGA TGCGGCCTTC CTCTTCACTG	150
	GCCCCTCGGC TGCTGCTGGG TCC	173
15	(2) INFORMATION FOR SEQ ID :834:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 288 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :834:	
	TGGCCCATGG GAGCCCTTAT GAGCAAGTTT CCAGGTCCTT ATGACACAAT	50
30	TCCATCATTC TTCGGGTACA TCCTTACTCT CTGGCACAGT AGAGATGTTC	100
	CAGACTTATC TTATATTTTC ACTTCCCCAT ACCTGGAATC AATCACTTCT	150
35	CCGAGGATGC TTGATTCCTT TTAGTGAAGA ACAGTCTTTG GAAACCAACC	200
	GTCTAGGGAC ATCAAGTATG TTTGCCGCTA TTGGAGTGTC ATTGCTCCTG	250
	AACCTTCTAA GTGGACACAG CTAGGAAATG TATGTGCT	288
40	(2) INFORMATION FOR SEQ ID :835:	

(i) SEQUENCE CHARACTERISTICS:

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(A) LENGTH: 310 base pairs
(B) TYPE: nucleic acid

5	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :835:	
10	CTTTTCTATT TTCCTTAAGT GTCTGCCAGT CTGAGAAATA AAGGGACAGA	50
	GTACAAAAGA GAGAAATTTT AAAGCTGGGT GTCCGGGGGA GACATCACAT	100
15	GTCGGCAGGT TCCGTGATGC CCCACAAGCC ACAAAACCAG CAAGTTTTTA	150
15	TTAGTGATTT TAAAAGGGGA GGGAGTGTAC GAATAGGGTG CGGGTCACAG	200
	AGATAACGTG CTTCACAAGA TAATAGAATA TCACAAGGCA AATGGAGGCA	250
20	GAACGAGATC ACAGGACCAC AGAACTGGGA CCAAATAAAG ATTGCTAAGA	300
	ACGTCTAGGG	310
25	(2) INFORMATION FOR SEQ ID :836:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 177 base pairs(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :836:	
35	TCAGTGGAGG AATTAAAACT GGTGGAGAAG GGGAGGTCAG GTTATCAGTT	50
	GAAATGCCAA GGTTATCTCT AATCTTAGCT AGATTCTGCC AAAGTTCACA	100
40	GAGGTAATCA AAAACTTGAG CATGTATTTA AGGATCCATG ATTGAATTTA	150
	CATCTCCCAA AATGCCTAGC ATTCTTC	177

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	·	
	(2) INFORMATION FOR SEQ ID :837:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 135 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :837:	
	CCGTTGCACT TGGTGTTGGC ATTCTGCAGG GCGGCACTCT CCCACTCTTC	50
15	CCGGCCTCGA GCCAACCTGA CGGCAGCCAG ATGGCAGTCG TAGTGCACAA	100
	TGTTGAAGTG GGACACGGTG CTGTAGCCCT GCTGT	135
20	(2) INFORMATION FOR SEQ ID :838:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 201 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25 .	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :838:	
30		
	TCAGTGGAGG AATTAAAACT GGTGGAGAAG GGGAGGTCAG GTTATCAGTT	50
	GAAATGCCAA GGTTATCTCT AATCTTAGCT AGATTCTGCC AAAGTTCACA	100
35	GAGGTAATCA AAAACTCGAG CATGTATTTC AGGATCCATG ATTGAATTTA	150
	CATCTCCCAA AACGCCTAGC ATTCTTCGCC ACATTACAGT AGCAACATCA	200
	G	201

(2) INFORMATION FOR SEQ ID :839:

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	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 181 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
		`
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :839:	
	TTCTTTGGAG TACATCCTTA CTTTCTGCAC AACAGATGAG AGATGTTCCA	50
	GAACTTATAC TGTATCATAT ATTTTACCTC CCCCCTATA CACCCTGAGA	100
15	TATACATATA CACTATCTCC GCTAGAGAGA TGTCTATGAC ATATCACTTT	150
	CTGAGATGTA CACGAACGAG ATCTTTTGAG A	181
20	(2) INFORMATION FOR SEQ ID :840:	
	(i) SEQUENCE CHARACTERISTICS:	
	(%) LENGTH: 222 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	·	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :840:	
	CATACAAATG ATTAGAAAGC AATACAGCCT TATTGCTGAT ATGGAGAAGG	50
	TTTTAGTGAA CATTCAGAGG AGTTTGGAAG AAAGTCGCTG CACAATCTTC	100
35	ATGGATGACT TTGAGGGATT CAAGACTTCA GTGGAAGAAC TAACTGCATA	150
	TGTGAGTAGA AATGGCAGGA GAACTAGAGT TCGAAGTAGG AGCTGGAAGA	200
. 40	TAATAACATG GGTTTAAAAA AC	222
	(2) INFORMATION FOR SEQ ID :841:	

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(A) LENGTH: 293 base pairs

(i) SEQUENCE CHARACTERISTICS:

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :841:	
10		
	CGCTCAGCTG GTCTATCCTG CTCTTCCTCT TGTCCTTGCT CTTGCTGCGG	50
	CTCCTATCTA CCGGCTACCT GCTGCCCGCT TTGCTCCTGC TACCGGCTCC	100
15	GACTCTGGCG GAGGCTCTTC TCCTGGCTCC TGCCCCTGCT CACAACTCCC	150
	TCGCTTCTCC TCCTCCACTC TCCTCTCCCG ACTCCTGCTC CGACTTTTGC	200
	TCTTACTTTT ATGCCTGCTA GGACTCCGGC TCTTGGGTTT CCCGAACATT	250
20	GTCATTGTTT TGGAACTTCT CCTTCAGCTT GGTCTTTTGC CGG	293
	(2) INFORMATION FOR SEQ ID :842:	
25	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 239 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :842:	
35	ATGAGGAGGT GAGGAAAAGG AGAAGTGCAG CTACCATCGA GTGATTCTTC	50
	TGGGATAGGT GTCTCATTTA AATCTCATAA TCATCTTTTT TGGCAGGTCA	100
	GTCAACTTCA GGCTCACAGA TGACAGACAG TTGGCCCAAA GACACACAGG	150
40	AAATACATAA GTGACAACGG AATACAAGTC CATGAATTAA AAAACCATGC	200

	TTTTCTCTCC TTGCCACACA GCTTTAGTTT GAAAAAAAA	239
	(2) INFORMATION FOR SEQ ID :843:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 154 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :843:	
15	TTCCGAATTA TTGAATCTTC TTCTGTAACA TCACAATCTT CCTGGTTTTC	50
	AGAATAAACG CTCTTCTCGC TCGCCTCTCT CTGCACTCAC TCCCACCTCA	100
20	CTCACTCACT CTATAATAAA ATGTTTGCAC TCAATTTATA TAGTAGTGTT	150
	TGTC	154
	(2) INFORMATION FOR SEQ ID :844:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 392 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :844:	
35	GTCTTTAATT GAGAAAGCTG GAGTGGAGAC CCGATCCCCT GGGAGCAGTG	50
	CCAGGAGTTG GGTGGAGACT GAGTGGGGTT TGTGTGGGTG AGGGGGCATC	100
40	TACTCCTCTT GCAACAAGCC AGAAGTAGAA CAGCCTAAGG AAAAGTGACC	150
	TGCCTTGGAG CCTTAGTCCC TCCCTTAGGG CCCCCTCACC CTACCCTTA	٠

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•	CAAGTCTGAG GCTATGGAAG TCTCCCTCCT AGTTCACTAG CAGGTTCCCC	250
	ATCTTTTCCA GGCTGCCCCT AGCACTCCAC GTTTTTCTGA AAAAATCTAG	300
5	ACAGGCCCTT TTTGGGTACC TAAAACCCAG CTGAGGTTGT GAGCTGTAAG	350
	GTAAAGCAAG TTCTATCCAA TTAGAAGCTG TTGGGGGCGT AT	392
	(2) INFORMATION FOR SEQ ID :845:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 200 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :845:	
20	CAAAGAATAA ATAATTTTTC TATTCCTGAA AGTTAACTAA TTATTTATTA	50
	GAAAGTCAGA AATATGTGGA AAGCAAAGGA ATATTTGAGA AAGTGATATG	100
25	AAATTAATAA GTGGTAAAAA ATTAATAAAA TTAATATTAG AGTTTCCTTT	150
	GAGCTAATCC TTTATTTATT TATTTTTTTC CTTGAGACAA TGTCTTGCCA	200
	(2) INFORMATION FOR SEQ ID :846:	
30	(i) SEOUENCE CHARACTERISTICS:	
	(A) LENGTH: 311 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :846:	
40	TTAAAAATAC TCTGGAAAGA GCACTTCCAT CGTTCATTTA CATCATATTA	50

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	GAAATGGATT TCCGAGTCAG CACTGGCTTC CTCCAGAATA GCAGTCCTGG	100
	AGGAGCGAGA TCTCCCCAAG CCTCCAGGAT TGCAGTCTGT . FTGTGCCTT	150
5	CACTCCCTAA TAGGTTTGCC TTATTTAAAG GACCCACCTT CAGAGCTGCC	200
	AAGGACTTTC TCAGAGCAGC TCCTTGGTCC CTCCGACAGC CTGGGATGGC	. 250
10	ATTTATTCTG GGGCCTGGGT GTGGGGAGGT CCTCACCAGC CTAGGAGTAA	300
10	GAGGAGGTGG T	311
	(2) INFORMATION FOR SEQ ID :847:	
15 20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 287 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :847:	
25	CAGATCAAGA CTGGTGCCCC TTGCCGATCT GAGCGCTTGG CCAAGTACAA	50
	CTCAGCTCCT CAGAATTGAA GAGGAGCTGG GCAGCAAGGC TAAGTTTGCC	100
30	GGCAGGAACT TCAGAAACCC CTTGGCCGGG TAAGCTGTGG GCAGGCAAGC	150
	CCTTCGGTCA CCTGTTGGCT ACACAGACCC CTCCCCTCGT GTCAGCTCAG	200
	GCAGCTCGAG GCCCCCGACC AACACTTGCA GGGGTCCCTG CTAGTTAGCG	250
35	CCCCACCGCC GTGGAGTTCG TACCGCTTCC TTAGTCT	287
	(2) INFORMATION FOR SEQ ID :848:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 263 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

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(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :848:	
	GATTACAGGT GTGAGCCACC GTGCCTGGCC TATTAATATG CTCTTAAAAC	50
	TCATCCATAC GTTTTCATAG CAAGAAAGCT TATTTCTCCC AACTACCGAA	100
10	TAATATTCTA TCGTATGGCC GCACCTCTGT TTATCCATTT ACCTATCGAG	150
	AGGCATCTTG ATTACTTCTA GCTTTGGATT ATTACAAATA AAACTATACA	200
15	AACACGCAAA CAGAGTTTCT CGTGTGAATA TAAACCCGCA AACCGGCTGG	250
	AGGCATATNA CCA	263
20	(2) INFORMATION FOR SEQ ID :849:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 279 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :849:	
	TTGTCAGTCA GAATAGGATG TAAAAGACTA TTTCAAAGAG TTAAATTATT	50
	TGTTAATATC AGAGATCAGC CACAGACAAG AAGTTTATGG ATGAGTGCAG	100
35	CAGTGGTCCA TTGGACATGT TAAATACTCG TGGATATCCA CAATTCGAAT	150
	TGACATTAAA AACGAATGGA TACCCAACTC TGAATTCCAT ATCGTTTTTT	200
40	AATATCAAAA ACACAATTTT AACTACTGAT AAACCAGGCA ACCACCGCAA	250
40	GTTTATCGAA ATCCTGCCGC TACTAAACA	279

	(2) INFORMATION FOR SEQ ID .850.	•
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 173 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	Va / Cas, Cas as a Cas as a Cas as a Cas a	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :850:	
	GCTGAAAGTT GAAGTGGAGA GCTTGAAACG AGAACTCCAG GACAAGAAAC	50
15	AGCATCTGGA TAAAACATGG GCTGATGTGG AGAATCTAAA CAGTCAGAAT	100
	GAAGCTGAGC TCCGACGCCA GTTCGAGGAG CGACAGCAGG AGACGGAGCA	150
20	TGTTTATGAG CTCTCGACAG AAT	173
20	10)	
	(2) INFORMATION FOR SEQ ID :851:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 240 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :851:	•
	TCGAGAAAGT TTCAATGTGA TTAGATTAAA ATTAAAAGAA TCCATAAAAA	50
35	TGGAACAAAG AAGAAGAGGA ATGAAATTAC TTTTACTTTA AACAGCATTG	100
	TTATCACATA AAACACGTAT CTTACAAATT CATGGGATAG CCCATAAATG	150
40	GGACTACAGC AACAATGGTA GGAGAGTCCA TCCTTCTTCA AAAGCAACCC	200
40	ACCACCAAMM MUCHOMBAAA AAMAMATTATA COORGO COORGO	
	AGCAGGAATT TTCTGTTAAA AATATTTTTG CCGTAATACT	240

	(2) INFORMATION FOR SEQ ID :852:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 314 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :852:	
	ACTGGACTGG TCAAGAACAA AGCTCATGGC AATAGTCTTT TGGAATGTTA	50
15	AAGGAATTTT TCTAGTTGGC TTTCTGGAGG GCCAAAGAAC AACAACATCT	100
	GCTTATTATG AAAGTGTTTT GAGAAAGCCA AAGCTTTAGC AGAAAAACAC	150
20	CTGGGAAAGC TTCATTAGAG AGTCCTTCCC CATCACAACG CTTCTGCTTA	200
20	TTCCTCTTAT AAAACAAGGG CAATTTTGTG AGAGCTACTG ACGATTTTCC	250
	CCTCGAAATT TACTATTTCT ACAGCTTATT AATCTCAAAT AGTAAGCATG	300
25	TCCTTGCCGT CACT	314
	(2) INFORMATION FOR SEQ ID :853:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 267 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :853:	
40	TCCTGAAATA CTCTCTACTG TCACTGCTTC AGTTTAATTT ATAGATAGCA	50
40	CCACAMATCA CTCCTTATTA CTTCTCATAA CTCTCAAATC CTTATTTCCT	100

	ATTTCTTCAG TGACAAGCAA ACTATCCCCC CACATGCCTT TAATGGCCAG	150
	TGTTTTCGAT TTGTATACCA ATAAGCAATC TAGGTAGAGG TAATCATATA	200
5	CTGATACGCT AACCTTTGAA ACATAATTTC CAATCTAGTA AGCTAAAATC	250
	GCGCCAATAC TGCTTAA	267
	(2) INFORMATION FOR SEQ ID :854:	
10	A CONTRACT CURP CONTRACTOR	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 186 base pairs	
	(A) LENGTH: 100 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :854:	
	GCAGTGGATC TTTCTTTTT TCCAAAGGAA ATTTCATATA GAGTCCATTC	50
	ATAGGAAACA GATAAAATGT GAACGGCTGC AACTGAGATG GGGGAGAGTG	100
25	GCTTGGAGCC CCCAGCCTCT TTGCTTTCTC TTATCCCTAT AGGATGGCCA	150
	TTAGGTGAAG CAGTTTAGCT TGTTGGTTCA GACCTG	186
30	(2) INFORMATION FOR SEQ ID :855:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 162 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :855:	
40	ATTTTGAAAA GAAACCTACA AAAATTGTAT TTCCATATTT CATAGTCAGC	50

	CAAAAATATT GGTCAACTCA TGCTCTCTGC AAGGTTCTGC AAAAATTGCG	100
	GAGTGGTATA GACAAGGCAC CATTGCAATA TATAATACTT TTTGGGTATT	150
5	GGCCCAAAAA TT	162
	(2) INFORMATION FOR SEQ ID :856:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 286 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :856:	
	TCTGTGGCCA CAGATGCATA TTACAAGCCC ATCCAGAGCC ATTATGAAGA	- 50
20	GAAAGTGGCA ATTTTATTCT CAGCCTGAGA AATCCACACC AATCTAGTCT	100
	GGGTTTCCAA GGATCTGCCG TTTAAGTCAC TTAGCCTCTA TCCTTTCCGG	150
25	GAACAACCTG CCCCTAGAGA GGGTGAACGA GAATCGTCCC CAGTGCCTCC	200
	AACATAACAA ACCCAATCGC CCTGTTAACT TTAAATCTTC AACTCGAGAA	250
	AAAGGCTCAT GACTACTTCT AACCATGCCC AAACCC	286
30	(2) INFORMATION FOR SEQ ID :857:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 280 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

.. 40

(xi) SEQUENCE DESCRIPTION: SEQ ID :857:

432

·		
	AACTATATGG TATTATTTCA CGCTGTACCC AGTCCATTGC TTGAACTTAC	50
	GGGTACCTAA TGAAACGTGG AGGTCCGGAT GTATGAAAAT CTCCTCTTTT	100
5	CCCCTTTACT TACAGCCTCT GTAGGCAATA ATTATAGAGT AGTATAGATG	150
	ATTTTTCTTT TTTATAAATC TGCCTATCTC CAGGAGGATG GGGCGCGCAC	200
10	TTTTAGAAAT GCATATAAAT GCTCTACGCT CCTTTTTTCT GTTACTTAAT	250
10	CGGCGCCAAG GCCTTTACAT GAATACTCAG	280
	(2) INFORMATION FOR SEQ ID :858:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 310 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
20 .	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :858:	
25	CACTGGTTTT CATGACTGAT TTCTTTATTT TTAGTAGTTC TGACATGTTG	50
	GCCAGGCTGG TCTTGAACTC CCAGCCAACC TCAAAGTGCT GGGATTACAG	100
30	CTGTGAGCAC CAGCCCAACC TCGCCTCTTT AAAAAGAAAA AACACAAGTC	150
	CACTCTGAAG TCAGCCTCTG TAACCTCCCC ACAAGAAAAC CGTTTTACAT	200
	CAGTCACTAA CCAAACAACC AACAGTGCTT CAACACAGAA AGTAAAGCAT	250
35	TATACAGGGC TTGAACTGTC TTTTAAGCAA GCCCCAAATC CTTTGAAAGG	300
	AGGCAGTAAC .	310
40	(2) INFORMATION FOR SEQ ID :859:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 158 base pairs

433

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double (D) TOPOLOGY: linear 5 (xi) SEQUENCE DESCRIPTION: SEQ ID :859: TCTGTGTGGA GGGGAGGGAC CCAGTCTGGA CCCAGGTGTC ATCATCTCAG 50 10 100 CCACAGCAGG GCCCTCTCAG GCTGGGAAAC TTCTGCCAGA GCTGGCGAGT CCTCTGCAGG TCAAGCCAGG GCTTGGACAC AACTACTTCA TCTATCGCGC 150 15 AGGAAGAG 158 (2) INFORMATION FOR SEQ ID :860: (i) SEQUENCE CHARACTERISTICS: 20 (A) LENGTH: 263 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID :860: TTTCTAATAA GAACATAAAA TAAAGGCTAA TTAAAAGAAG GTGACTGAGT 50 30 100 CCAGGAAGGC ACTAATCAAA GATGATATAC AGCCAGGTAA AAAAGAACAA TTCACAGGCA CAAGACTATA TAACCATCGT TTTATTTTCA AACGTTATAC 150 35 AAAATATACT CTACCGAACT ATAATAGATC ATTAATAGTG GCACAATCTT 200 TAGATTCGGA ATAACTTGAA AATAAATCCC AACCACGTAA CTTACTAAAG 250 263 GAATAATGAG CCA 40 (2) INFORMATION FOR SEQ ID :861:

(A) LENGTH: 254 base pairs .

(B) TYPE: nucleic acid

434

(i) SEQUENCE CHARACTERISTICS:

	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :861:	
10	ATTTGTCTGA AAAATATATT TCTACACGAT CTGATAAAGT TCAGATAAGG	50
	GGCATTCTAT TCCTAAGAAT GTCCTAAAAA TGGAAAACTG ATAAAAGATT	100
15	ATGCTTAGAA TTATACAGGT AAAAGACCTA CAACAATTGT TCTCTTGTTT	150
	TGATCCCATA GGTCATTTGT TATTACTCTT CTTCAACAGA GTGATTTTCT	200
20	ATTATAAACT TTCTTAGGAG CCAATACAGA GTAGAAAGAA ATATTTTCAG	250
	AAAG	254
	(2) INFORMATION FOR SEQ ID :862:	
25 *	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 37 base pairs	
	(B) TYPE: nuc _c acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
		3
	(xi) SEQUENCE DESCRIPTION: SEQ ID :862:	
35	GTTCCTCCTT TGTAAATTAT GAAATATTTA TAGTTTAGAC TGAGTAATAT	50
	GACATGAAAC AACAAACCTG CACATTTCTA ATTTATAACA AATCCGTTTC	100
40	CTTAATGGGT GGAAGGAAAT CTGAGGACAA TTCTAAGGAG TCTTGTCTGC	150
	TTTCAGTGCG ATCTTCTAGT CATACTGAAG ACAATACCTC TCCAGATTGA	200

	TCTTTCCCCT TCTTATACTC TTCCCGATCA ACGTCAATCA CACGCACCAC	250
	TCCAGGTTTT AGACTTAGGT CATCCGTCTC TACCTGACTT CTGTTGCCCT	300
5	TCACCTACAC GTGGCTCGCT TTAGTTTGCT GAGCAGC	337
	(2) INFORMATION FOR SEQ ID :863:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 169 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :863:	
	TGGTGGGTTC GAGCCCAACT TCAGCGCTCT TCGAGAAGTG CGAGGCGAAC	50
20	GGTGCGGGGG CGCCTCTCCT CTCCACCTTC CTGCGGGAGG CCCTGCAAGC	100
	TCTCAGCGAC GACGCCACCA TCTTCTGACC AACTTCAGGC TACTACCCCA	150
25	ACTTACAATG CCACCGCGA	169
	(2) INFORMATION FOR SEQ ID :864:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 286 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :864:	
	ATTAAGGTAA AGGAAGACTT TCCATTGTTA AGTAGAAAGA GTGTCCTGCT	50
	ATTMAGGTAM AGGAAGACII ICCAIIGIIA AGIAGAAAGA GIGICCIGCI	30
40	ATTACTACCA TTCACATCTA GTTTGTGTGA ACTAGGGTTT TCTATCTTAA	100

	CCCTGTTAAA AACAAAGGAA AGAAATGGGC TGAATGGCGC ACCAGCTATG	150
	CGGATAGCAT TATCTTCCTG TGTTCCAGAC TGGAATGAAT TTATGAACAA	200
5	GGCAAGCACA CCATTATAGT AAATAAAATC TTACCTAGTT TTCGTTTTTG	250
	CATTTCTTAC TTCGCAGTAT TTCTCCCGCC AAGAGC	286
•	(2) INFORMATION FOR SEQ ID :865:	
10		٠
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 272 base pairs	
	(B) TYPE: `nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(with GEOMENOR DECORPORATION and The OCC	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :865:	
20	ATATAGTCCG CTAGGGATAG TGAAAAATTT GGGGCTTGGT TTAGATTGGA	
	ATATAGICCO CIAGGATAG IGAAAAATII GGGGCIIGGI TIAGATIGGA	50
	GAGGTATATG GTGGGGTGTC TTATAAGGCT TAACTTTGGG AGGGCCCAGG	100
		100
25	GCCTTGATTT CTGTCCCCCT TGCCTTGCGT GGCCTTTGAA TTGAAAGCTT	150
	· · · · · · · · · · · · · · · · · · ·	-
	TGAATTAGGC CTTCATAGAT TTTAGTGTGC ATACAAATAA CACGATCTTT	200
	TTATAAGGCA GATTATGATT CTGAAGGTTT AGTGTGGGAC CCAAGCTTTC	250
30		
	GCATTTCTGA TCTATAAGGT GA	272
	(2) INFORMATION FOR SEQ ID :866:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 296 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

	437	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :866:	
	ATGCAGGAGA AGAAGGATGC CAAACTAAGT CAAAAAAACG GAACGCAAAT	50
5	AAAAGGAATG AGCACGGTTA CAAAGTCACA GGATGAGTCC CTGGGATCTG	100
	GGGCGGGAGA AGGGGTGAAT CAAGAATGAC TTGAGCTTGT TACTCCCTAG	150
	CAGGCTGAGG GCGTGACACA GCAGCTCGAT GACAAAGAGG TCTATTATAG	200
10	TTTCTAACAC TACAACGCTA ACTTTTGGAA CGTATCTACT TCTAGCATGT	250
	AGACAGATCT CTAATCGCCT GCCAGACGGT AAGCCGCAGG AATGCG	296
15	(2) INFORMATION FOR SEQ ID :867:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 241 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :867:	
	TATTTTATCT CAACATAATA AAAACGACTA TAAATCTTCC TAAGAGAATG	50
30	CTCTACTCCC AAGACTAATT TAAACTCGGG GATCGTCAGA GGGAGTGCCA	100
	CTGTGACTTC TACGATGAAA GAACAAGGGA GAGAAGATCT TATCGACAAT	150
	CATACAAAGC CATATATACG CTATTCCTCA ACTCACAGAG TTAATTAAAT	200
35	GTCACCAGGA TGGAAGAAAC CTTATAAGCC CCTATCTATC A	241
	(2) INFORMATION FOR SEQ ID :868:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 130 base pairs(B) TYPE: nucl ic acid(C) STRANDEDNESS: double	

438

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :868:	
-	GGACGACTGC AAGCTGGAAC TACACACGCG CACTCGCTCA CACTACACAC	50
	ACGCCACTCT CACACACTCT CACACACGCA CCCTCTCGCG CATGCTCTCT	100
10	CAAAGCCCAA TATAACCAAG GGGAAGGAAT	130
	(2) INFORMATION FOR SEQ ID :869:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 310 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :869:	
25	TTCAAATATT TATGTATGTT TGAACATTTT CATAATAAAA TGTTGAAAAA	50
	CTAATGAGAA TGGCATAAAC AACATTTAAG CAATATATTT TGAAATTTAA	100
30	TTCAAATGGT CAAATTCCTG GAAAACACAA ACTCCCTTCA CTAACAGAAT	150
	TGATAGAAAA TCTGAGTAGT TCACCATTGT TAAAGAAATG GAATGTGCCA	200
	TTTAAAACCC TCCAATTGAA AATACTACAT ATAGTTACAA TAGGGAATTT	250
35	TCCCAAGCAC TTAAACAATA AACAATGCCC TCTTTATACA AACCTTTCCC	300
	AGTAATAGAA	310
40	(2) INFORMATION FOR SEQ ID :870:	
	(i) SPOUPNCE CHARACTERISTICS.	

(A) LENGTH: 192 base pairs

439
(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear 5 (xi) SEQUENCE DESCRIPTION: SEQ ID :870: AAAGAGGCAA GTTCCTGGTG CAAAGGTGGC TCTGCAGCAT AATTTAGGCA 50 10 TTGGAGGAGC TGTGTGTTGT AACACTCTAC AAGATGGGTT TTCCGGAAGC 100 CGCCAGTTCT TTTAGAACTC ATCAAATTGA AGCTGTTCCA ACCAGCTCTG 150 15 CAAGTGATGG ATTTAAGGCA AATCTTGTTT TTAAGGAGAT TG 192 (2) INFORMATION FOR SEQ ID :871: (i) SEQUENCE CHARACTERISTICS: 20 (A) LENGTH: 250 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID :871: ACCATAGATG TGTTCCAGAG GCAAAAGAGA CACATTATCC TAGATGGCAG 50 30 AACATGCTTT CAAAACATAT AAAACGTCAA AGTTCCAGAT CTTTCTACAT 100 TTTAAATCCT GTCTGAGGAT GGCAGCTGAC TTTATGTAGC TGATAGACGA 150 35 CTAGAGTTTC ATCCAAATAC CTGACCACGA CTTCATGGAG ATTTGAATAA 200 TCTATCCGAT GAGATTTATA TNTAAACAAC TCAACTCCTG TCGAAACAAA 250 (2) INFORMATION FOR SEQ ID :872: (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 313 base pairs

440

(B) TYPE: nucleic acid (C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :872:	
10	TCAGCTACGA ATTGCTTCCT TCTCACAGAA CTGTGACATT TATCCAGGGA	50
10	AGGATTTTGT ACAACCACCT ACCAAGATTT GCGTGGGCTG CCCCAGAGAT	100
	ATACCCACCA ACAGCCCAGA GCTGGAGGAG ACACTGACTC ACACCATCAC	150
15	AAAGCTTAAT GCAGAGAATA ACGCAACTTT CTATTTCAAG ATTGACAATG	200
	TGAAAAAGC AAGAGTACAG GTGGTGGCTG GCAAGAAATA TTTTATTGAC	250
20	TTCGTGGCCA GGGAAACACA TGTTCCAAGG AAAGTAATGA AGAGTTGACC	300
	GAAAGCTGTG AGA	313
	(2) INFORMATION FOR SEQ ID :873:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 270 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :873:	
35	TAGATGCTGA TGGCAATGAC ACAATTGACT TCCCTGAATT CCTGACAATG	50
	ATGGTAAGAA AAATGAAAGA CACAGACAAT GAAGAAGAAA TTAGAGAAGC	100
40	ATTCCGTGCG TTCGATAAGG ATGACAATGA CTATATTAAC GCTGCAGAAC	150
-	TTAACCATAC AATGACAAAC CCCGAAGAGA AGTTAATAAA TGAAGAAGTT	200

	GATGAAATGA TCAAAAACGT AGATNATTGA TGACGATGGT AAGGTAAACT	250
	ATCCAGCGTT AGCACAAATG	270
5	(2) INFORMATION FOR SEQ ID :874:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 229 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :874:	
	TTGGGCCATG TCCCCATTTT ATCTCCAAAG CCAGCCATGG TGTATTTCTC	50
20	TCTGCTTTTC TTCCATATTT CCAACCCAGA AATGACTCCT GTTCCCATAT	100
20	GTGATTATTA TATTGCGCTA ACCCAAGTGA TTAAGGATAA TCTCACTACT	150
	TAATGACAGC TGATTATTTC CATCTGCAAA CTTACTCAAG AATGCAATCC	200
25	AGACTAACAC GACAATAGGA CATCAAGCT	229
	(2) INFORMATION FOR SEQ ID :875:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 294 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :875:	
40	TTTGAACTTT CAGCCGAATA CATCTTTTTC CAAAGGAGTG AATTCAGGCC	50
40	CTTGTATCAC TGGCAGCAGG ACGTGACCAT GGAGAAGCTG TTGTGTTTCT	100

	TGGTCTTGAC CAGCCTCTCT CATGCTTTTG GCCAGACAGA CATGTCGAGG	150
	AAGGCTTTTG TGTTTCCCAA AGAGTCGGAT ACTTCCTATG TATCCCTCAA	200
5	AGCACCGTTA ACGAAGCCTC TCAAAGCCTT CACTGTGTGC CTCCACTTCT	250
	ACACGGAACT GTCCTCGACC CGTGGGTAAC AGTATTTTCT GCGT	294
10	(2) INFORMATION FOR SEQ ID :876:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 173 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :876:	
20	ATTTTTGGTA ACATACATCA AGTGGCACTA ATTACACAGT AACTATAAGG	50
	TAACTAACAT GAAACCACAG AACTGTAACT CTGCCACAGC TGCATGAACT	100
25	CGGGTTGTCC TGACCGAGCC CATCCCCAAA AAACCGCCCA CCCCAGAGCT	150
	ACGCCAACAA AAACCGTTAT TAA	173
	(2) INFORMATION FOR SEQ ID :877:	
30	(i) CROUDING CHARLES AND COMMENT	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 143 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
		·
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :877:	
	TAATCAAAAG AGCTCTAAAT CTGTAATTTC TTTCTCCTTT AAAAAAATGT	50

	CTACTTTGTT TTGGTCCTAG GCATTAGGTA ATATAACTGA TAATATACTG	100
	AAACATATAA CGGAAGATGC AGATGATAAA ACTAATTTCG AAC	143
5	(2) INFORMATION FOR SEQ ID :878:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 213 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :878:	
	(A1) Dagoznos salantes dag la vere	
	ACTGAATAAA CTGCTGATGT CCAGGTTCAG TGGTTCCTGC TGTGGGACTT	50
	GCGTTTTCAC TAAGTGTGGC GTTAGATCCA TTAGTTCCCG AAGAGCCTCC	100
20	AGTGCTTCCT AATGCCCCCA AGCCAGGAGT AAACCCTGGA ATGAGGCCCA	150
	GGGCTTCTAT TGCTAATGCC TGTAAACCTT GCTGAATCTA TAACAGAGTC	200
25	TATACCGCTC TCG	213
	(2) INFORMATION FOR SEQ ID :879:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 227 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :879:	
	AAAGAAGGAA AAGAAAGAAA TAACACTTAA CAGTCCATAA CAAAGTGTTA	50
40	ACGAGATAGA CACATGCTTA TTCAAACCAC AGATATGATC CAGTTAATTC	100

444

	CCTTCTTAGA ATGTGCCCAT AGTGCCTTAT TGCCTCATAA TAATGATAAT	150
	AATAAGAGCA ACAATAATAA CGGCACAAAC TCCAGTCGAT ACTGACAAAC	200
5	TACCAGAGTA ACCGTCATCC CCTTGAG	227
	(2) INFORMATION FOR SEQ ID :880:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 221 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :880:	
20	ATAGACAAAG TCCTTCCCAC TAGAACTTAC ATTCCAGTGG GAAGAATTAG	50
	AAGCCTCAGG AATTCCATTG CTTACTTTTA GTTGTTACTT CAAAAGTACT	100
	TACATTTAAT CTGATTATTA ATTATTCGTC ATGAGCTTCA TTTTATTACA	150
25	TCCAGGGCAC AGTATGTGAA TTGTGTTTCG TTCCTTTAGG AAAAGGAAAA	200
	ATAATĆACTC TTTACAAGGT A	221
30	(2) INFORMATION FOR SEQ ID :881:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 310 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :881:	
40	(, englands special from seg in .col:	
	AATTGTGGTA TATTTCATTT AAAATCGATC AAAGACAGCA ACATACATTA	50

	ATCAGAGGAA AGCATCAATT AAATGCAGAA ACAAGATTTA AACAAAGATT	100
	CATATTAAAA CAATGATAAG TAATACTTAG AAACTGCATC CTAGAGACAC	150
5	ATCATTCGCA TTTTTAGAAA AACAGAAACA TATTAGTGTG AAAAGATGTT	200
	AAAAAATGAA TATTAAACCG TCGAGCACAA CACACTACGC CGATAACAAT	250
	ACACCACAAG CGCCGTAATC CTGCCGACAC TGACACACTA CAGGCGTCGT	300
10	GGCGATCCGA	310
	(2) INFORMATION FOR SEQ ID :882:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 177 base pairs (B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :882:	
25	GTTCACATCA GTGTGTAGGA TATGCTATCA CGTATGTGCA TGAGAAGAAT	50
	GGAGAAAATG GATCTATGCG GATGTCTGTA CACACACAC CACACACATA	100
30	CACAACAAGC TTGCACATGT ATAGAGGATC CGAAATTCCA CCAATACTGA	150
30	CGAACTACAA ACGTAACAGC AGCAGGC	177
	(2) INFORMATION FOR SEQ ID :883:	
35	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 152 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
40	·	

446

	(xi) SEQUENCE DESCRIPTION: SEQ ID :883:	
	CAATTCTATT TTCAGAGTTG ACTGTACTCT TTTCCTCTGA AGATACACGT	50
5	ATAAACGCGA CCAACGAGGT CTCTCGTCCT AATAACAGGT TCAGGCATGA	100
	ATCACCGTCT AACAGCTATT TAAACACCGC CTCTTCATAG AAGTAACGCC	150
	GA	152
10	(2) INFORMATION FOR SEQ ID :884:	
	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 177 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	*
20		,
	(xi) SEQUENCE DESCRIPTION: SEQ ID :884:	
	CCATAATATA AGTATTTATC ATGTATTCTG TGTCTGGAAT ACAATTCAAT	50
25	GACCTATTTC AGAAAAATCT TTTCAAGTAC TGGCTGAAAG AGTGAGGGAT	100
	ACATTAGGAG ACTGCAAATA AACTGGCAAT CACAAGAACT TTTTCGGATA	150
30	AAATGAAATT GTGCCGAAAT GTATACA	177
30	(2) INFORMATION FOR SEQ ID :885:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 241 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID :885:

•	CACAGCTGGA AGAGCGGAGA AATAGAATTG TCTTCAAACA ATATAAAAAT	50
	TCATAAAGAA TAGAAAGACT ACTATGTGTG GGTCGGGAAA TTAACTAGAA	100
. 5	TTTTTTATA TCCACACTCT AGTATGAAAT GAGTACTTAT AGAGTAGAGT	150
	GTAACATATT TAGACATAGT ATATATATA ACAAGTGTAA CAAATATATA	200
	TATTAAATAT ATATATGTTT TATAGAAACA CAGAGCACAC A	241
10	(2) INFORMATION FOR SEQ ID :886:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 190 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :886:	
	GTAGCAACCG GCGCTCAATA AAATTCAACC AGCAAACTCG ACAAGTAACA	50
25	ACCATAAAAC CAGCCACACT AAGTCCAGCC ACCACTACTC AATAAAAATA	100
	ACACGTATCT TCCACCGTAC AACCAATAGC AACTGCAGGC TACTGCAACG	150
20	CCATCCATAT ACCAAAAATG CTACTTACAA CACCACAACA	190
30	(2) INFORMATION FOR SEQ ID :887:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 168 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	,	
40		
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID :887:

	CACGCTTTCT CTCACACAGC ACTAGCGCTC TCTCACTATC ACTCTTCTCA	50
	CAGAGCTGCG CGCGAGTCTC ACTACTATCA AATATATCTG TCTCTTCTCA	100
5	CTCTATAGCT CTCTCACAGA TATATATCTA CATATAGCGC TCTCATTATA	150
•	CTATAATATT ATACTCTC	168
10	(2) INFORMATION FOR SEQ ID :888:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 174 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :888:	
20		
	ACTGGGCGCG CTGGTGCTGA CATCTTCAAG AGCATCTGTC ACTGAATATT	50
	GCCGATCTCG CAACCGGTTC CAGTTAGACA GAACATTGTG ATATTCAAAC	100
25	CACTTTCTCG TAATTTCCAA TGGAGTTGTA AAGTTTAATG AGACCTCGAT	150
	AATCATATTC TAGTCCACTG TAGC	174
	(2) INFORMATION FOR SEQ ID :889:	
50	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 327 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :889:	
40	·	
	ACACCACACT TAAGGAATGG GAGTTATATT TCACTTCCCT GAGGCCACAA	E0

•	TATATATATG TATGTATGTA TATGTGTGTG TGTGTCTATA TATATATATA	100
	TATAGACACA CACGCACATT ATACACACAT ATATATACAC ACACATATAT	150
5	ATATGTGTGT GTACAATATA TAAAAAATTA TATGGGAGAA AAGAAAGGCA	200
	AATCTCCCAT GGCAGAGAG TATCCCAAAA AATTTTTTTG TGTGTAACAA	250
	AATATGTTGT GTGTATATAT ATATGCACAC ATATTTATGT GTATATATGT	300
10	ATATATAT CTGTATATAC AGGTATA	327
	(2) INFORMATION FOR SEQ ID :890:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 181 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :890:	
25	TTTTTTTCTT GTCTCTCCCG CAGCGCGCGC CTCTCGCGGC GCTATCTCTC	50
	GCTCTCTCC GCTCTCCGA GCTCTCGAGA TATAGCCGAG ACACGAGAGC	100
30	TCGCTCTCTC CCGCGCGAAG ATCTCACCCC CGCGCGCTCG CGCGATATAT	150
30	ATCTCCTCGC GCGCGCCCG AGCGCGCCCC T	181
	(2) INFORMATION FOR SEQ ID :891:	
35	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 207 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
40	·	

	(XI) DEGOLACE DESCRIPTION. DEG ID .031.	
	CTCTTTAATA GCAAGCGAAT GGTAATTACA TGGTCGGATG AGGTCCTCAC	5(
5	TCTCAGGGGA GGGAGGGG AGCAGAGGTG GACAGGGTGC AGTATAGGAT	100
	TTACACTGTT TGAAGCATCT AACGAAGGGC AACAGTTTTT GGCAACCCAA	150
10	TTCACAGTTT TGTAATTTAC AAGAGATTTC TTTGAAAGGA AATAGGAAGG	200
10	CAAAGAA	207
	(2) INFORMATION FOR SEQ ID :892:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 198 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :892:	
25		
25	CTATCACTTC AGGGAAACAA ACAACTAACA GCCATCAATT CAGAGGGAAG	50
	TGATTTTACA GTAGAGTGAA CGAAACTTGG GAAGGAAAAC ATCCAAGAGG	100
	TOTALITAGE GRANDELLOG GRANDELLOG MICCAMGAGG	100
	CGTCTGTTTG ACGTGGGTAA CGTGGGGAAC GCATACTGTC TGGCAAGAAT	150
30		
	TCTACTAGGA CCACGGGAAA CAAAGCAGAT TAAAACACTC TCTACTCT	198
	(2) INFORMATION FOR SEQ ID :893:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 96 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :893:	
	CTTTAGAGAA TGCCTTGTGG AAAAAAAAA AAATGGGCCC CAATACTTTT	50
5	TACTGCCCTT TATCAAAATT GTTGTGCATG GACCGGGCCA AATAAG	96
	(2) INFORMATION FOR SEQ ID :894:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :894:	
20	AATTGTATAC CAACATATAA ATTAAAAGTG TTATGCAATG AGAAACAATA	50
20	ATGGAAACAG CATAATACTA CATACTATCG CGCGGGGTTG TCGGCGTGGT	100
	GGGCGTGCGT GTAGAGAGAG AGCAAGGGCG TGTGCGTGAG TGGGCGTAAA	150
25	GAGTGAGCGT GGGAGGGTGT GGTCGGTGGA GGTGTGTGGA GAGGTGAGTG	200
	TGCGAGAGGG GCGAGTGTAT GTGTGATAAG TATAGCGCGC AAGAGGCGAG	250
30	GACAAAATAT ATATATAT AGATATAATA GATATGAGAG AACACTAAAC	300
	AATAACCACT ACTCACATAG AATAT	325
	(2) INFORMATION FOR SEQ ID :895:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 266 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

TTTATCATT ATTTGTGTTG GAAACATCA AACCTTTCT TCTAGCTATT TATCCATTG TGGATACTTA TATCAATTCT ATATCTTAGC TGTTGTGAAT AGAGCTGCAA TAAATGTAGG AGTGCAGATA TCTCTTTGAT ATACTGATT TCTTTCTTTT GTTATA (2) INFORMATION FOR SEQ ID :896: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 197 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :896: AAGAAGAGTC TCTGGACAA ACAAAACCAT AGTGTTGACA AATAGTCATG GCCAATGGCA ATCTGATGGT CCAGCGGCCC TCGGATGACT CCTCTGCAAG GAGCATCTC AGGGTTCTAG GGAAGTCACA GGGGCAACAT ATTGGAAACT AGCAGGCCCA GAAGACCGCC CCGCCCCCCA TGCCCTGGCG CAGGGCC 197 (2) INFORMATION FOR SEQ ID :897: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 192 base pairs		(xi) SEQUENCE DESCRIPTION: SEQ ID :895:	
TTTATCATTT ATTTGTGTTG GAAACATTCA AACCTTTTCT TCTAGCTATT TATCCATTGT TGGATACTTA TATCAATTCT ATATCTTAGC TGTTGTGAAT AGAGCTGCAA TAAATGTAGG AGTGCAGATA TCTCTTTGAT ATACTGATTT TCTTTCTTTT GTTATA 266 (2) INFORMATION FOR SEQ ID :896: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 197 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID :896: AAGAAGAGTC TTCTGCACAA ACAAAACCAT AGTGTTGACA AATAGTCATG GCCAATGGCA ATCTGATGGT CCAGCGGCCC TCGGATGACT CCTCTGCAAG GGCATCTTC AGGGTTCTAG GGAAGTCACA GGGGCAACAT ATTGGAAACT AGCAGGCCCA GAAGACCGC CCGCCCCCCA TGCCCTGGCG CAGGGCC 35 (2) INFORMATION FOR SEQ ID :897: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 192 base pairs		ATAGTTGTAC ATTTTTATGG GGTGCATGTG ATATTTTGAT ATGTGCATAC	50
TATCCATTCT TGGATACTTA TATCAATTCT ATATCTTAGC TGTTGTGAAT AGAGCTGCAA TAAATGTAGG AGTGCAGATA TCTCTTTGAT ATACTGATTT TCTTTCTTTT GTTATA 266 (2) INFORMATION FOR SEQ ID :896: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 197 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID :896: AAGAAGAGTC TTCTGCACAA ACAAAACCAT AGTGTTGACA AATAGTCATG GCCAATGGCA ATCTGATGGT CCAGCGGCCC TCGGATGACT CCTCTGCAAG GAGCATCTTC AGGGTTCTAG GGAAGTCACA GGGGCAACAT ATTGGAAACT AGCAGGCCCA GAAGACCGCC CCGCCCCCCA TGCCCTGGCG CAGGGCC 35 (2) INFORMATION FOR SEQ ID :897: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 192 base Fairs	5	AATGTGTAGC AATCAAATCA GGGTAATTGG GATATTCATC ACCTCAAACA	100
AGAGCTGCAA TAAATGTAGG AGTGCAGATA TCTCTTTGAT ATACTGATTT 250 TCTTTCTTTT GTTATA 266 15 (2) INFORMATION FOR SEQ ID :896: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 197 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID :896: AAGAAGAGTC TTCTGCACAA ACAAAACCAT AGTGTTGACA AATAGTCATG 50 GCCAATGGCA ATCTGATGGT CCAGCGGCCC TCGGATGACT CCTCTGCAAG 100 GAGCATCTTC AGGGTTCTAG GGAAGTCACA GGGGCAACAT ATTGGAAACT 150 AGCAGGCCCA GAAGACCGCC CCGCCCCCCA TGCCCTGGCG CAGGGCC 197 35 (2) INFORMATION FOR SEQ ID :897: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 192 base pairs		TTTATCATTT ATTTGTGTTG GAAACATTCA AACCTTTTCT TCTAGCTATT	150
AGAGCTGCAA TAAATGTAGG AGTGCAGATA TCTCTTTGAT ATACTGATTT TCTTTCTTTT GTTATA 266 15 (2) INFORMATION FOR SEQ ID :896: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 197 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID :896: AAGAAGAGTC TTCTGCACAA ACAAAACCAT AGTGTTGACA AATAGTCATG GCCAATGGCA ATCTGATGGT CCAGCGGCCC TCGGATGACT CCTCTGCAAG GAGCATCTTC AGGGTTCTAG GGAAGTCACA GGGGCAACAT ATTGGAAACT AGCAGGCCCA GAAGACCGCC CCGCCCCCCA TGCCCTGGCG CAGGGCC 197 35 (2) INFORMATION FOR SEQ ID :897: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 192 base pairs	10	TATCCATTGT TGGATACTTA TATCAATTCT ATATCTTAGC TGTTGTGAAT	200
(2) INFORMATION FOR SEQ ID :896: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 197 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :896: AAGAAGAGTC TTCTGCACAA ACAAAACCAT AGTGTTGACA AATAGTCATG GCCAATGGCA ATCTGATGGT CCAGCGGCCC TCGGATGACT CCTCTGCAAG GAGCATCTTC AGGGTTCTAG GGAAGTCACA GGGGCAACAT ATTGGAAACT AGCAGGCCCA GAAGACCGCC CCGCCCCCCA TGCCCTGGCG CAGGGCC 197 35 (2) INFORMATION FOR SEQ ID :897: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 192 base pairs	10	AGAGCTGCAA TAAATGTAGG AGTGCAGATA TCTCTTTGAT ATACTGATTT	250
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 197 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID :896: AAGAAGAGTC TTCTGCACAA ACAAAACCAT AGTGTTGACA AATAGTCATG GCCAATGGCA ATCTGATGGT CCAGCGGCCC TCGGATGACT CCTCTGCAAG GAGCATCTTC AGGGTTCTAG GGAAGTCACA GGGGCAACAT ATTGGAAACT AGCAGGCCCA GAAGACCGCC CCGCCCCCCA TGCCCTGGCG CAGGGCC AGCAGGCCCA GAAGACCGCC CCGCCCCCCA TGCCCTGGCG CAGGGCC 197 35 (2) INFORMATION FOR SEQ ID :897: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 192 base pairs		TCTTTCTTTT GTTATA	266
(A) LENGTH: 197 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID :896: AAGAAGAGTC TTCTGCACAA ACAAAACCAT AGTGTTGACA AATAGTCATG GCCAATGGCA ATCTGATGGT CCAGCGGCCC TCGGATGACT CCTCTGCAAG 30 GAGCATCTTC AGGGTTCTAG GGAAGTCACA GGGGCAACAT ATTGGAAACT AGCAGGCCCA GAAGACCGCC CCGCCCCCCA TGCCCTGGCG CAGGGCC 197 35 (2) INFORMATION FOR SEQ ID :897: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 192 base pairs	15	(2) INFORMATION FOR SEQ ID :896:	
AAGAAGAGTC TTCTGCACAA ACAAAACCAT AGTGTTGACA AATAGTCATG GCCAATGGCA ATCTGATGGT CCAGCGGCCC TCGGATGACT CCTCTGCAAG GAGCATCTTC AGGGTTCTAG GGAAGTCACA GGGGCAACAT ATTGGAAACT AGCAGGCCCA GAAGACCGCC CCGCCCCCCA TGCCCTGGCG CAGGGCC 197 (2) INFORMATION FOR SEQ ID :897: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 192 base pairs	20	(A) LENGTH: 197 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
GCCAATGGCA ATCTGATGGT CCAGCGGCCC TCGGATGACT CCTCTGCAAG GAGCATCTTC AGGGTTCTAG GGAAGTCACA GGGGCAACAT ATTGGAAACT AGCAGGCCCA GAAGACCGCC CCGCCCCCCA TGCCCTGGCG CAGGGCC (2) INFORMATION FOR SEQ ID :897: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 192 base pairs	25	(xi) SEQUENCE DESCRIPTION: SEQ ID :896:	
GAGCATCTTC AGGGTTCTAG GGAAGTCACA GGGGCAACAT ATTGGAAACT AGCAGGCCCA GAAGACCGCC CCGCCCCCCA TGCCCTGGCG CAGGGCC (2) INFORMATION FOR SEQ ID :897: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 192 base pairs		AAGAAGAGTC TTCTGCACAA ACAAAACCAT AGTGTTGACA AATAGTCATG	50
GAGCATCTTC AGGGTTCTAG GGAAGTCACA GGGGCAACAT ATTGGAAACT AGCAGGCCCA GAAGACCGCC CCGCCCCCCA TGCCCTGGCG CAGGGCC 197 35 (2) INFORMATION FOR SEQ ID :897: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 192 base pairs	30	GCCAATGGCA ATCTGATGGT CCAGCGGCCC TCGGATGACT CCTCTGCAAG	100
35 (2) INFORMATION FOR SEQ ID :897: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 192 base pairs		GAGCATCTTC AGGGTTCTAG GGAAGTCACA GGGGCAACAT ATTGGAAACT	150
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 192 base pairs		AGCAGGCCCA GAAGACCGCC CCGCCCCCCA TGCCCTGGCG CAGGGCC	197
(A) LENGTH: 192 base pairs	35	(2) INFORMATION FOR SEQ ID :897:	
(B) TYPE: nucleic acid 40 (C) STRANDEDNESS: double (D) TOPOLOGY: linear	40	(A) LENGTH: 192 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :897:	
	GATGGCTGGA GTAGATTAGG GCGTAGGTAG AAGTAGAGGT TAAGGAGGGT	50
5	GATGGTGGAC TATGATGGTG GGGATGATGA GCGCTATTGT TTTTTGTGAA	100
	TATTTTTCTT CCGACTAACT CGCGCCCCAC TCTCTTGCGA GCACAAACAC	150
10	ACGCGCGCT GTAAGCGGCG CGAGACACGC GCCCCTTCCC CT	192
	(2) INFORMATION FOR SEQ ID :898:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 224 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :898:	
	TGGATGTTTT CATTCGCAAA TCATGAGAAA CTTAAGTGGG TTTTATGCAC	50
25	TTGATAGAGT TGGCAAAATT GAACTATGAA GTTAACTATT TAACTCAAGG	100
	AATGGGCGGC AAACCCATCC CCTCGATTGA TAAAGAAGGG GAACATTTTT	150
30	ACATTAGAAC TGACACTGAA AACATAGCTC TTTTTCAGTC CACCCTGGTT	200
	GCTCTAGTAG CCCACAGCCC AATC	224
	(2) INFORMATION FOR SEQ ID :899:	
35	(:) SECUENCE CUADACTERISTICS.	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 362 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(D) IOPODOSI. IIMEGI	

	(xi) SEQUENCE DESCRIPTION: SEQ ID:899:	
	GAGGTGATTT CTCAGAGTTT AGAGAATAGG ATGGGGAAAA TTATATTTAG	50
5	TGAGTTATAA CCAGAATTAC ATAAGACAGA TATGGAAATT TTATAAACAA	100
	AATGCAAAAT ATTCTAATGT TTCAATGTTC TACATGAACA TATAGGGAAG	150
·	CATAGACAAT AGCCAAAAAT ATGTTCTGCA TTCATATACT AGTTCAAGTC	200
10	CGAGTCTGGC TACTTTCTAG GTAGTGTGCT TTTTGTCAAA TTATAAAGAT	250
	ATATTCCCTT TGTTTTTTGA AAACGAGTGA GATGCTTAAA TAGAGTACAA	300
15	TTATCTCATT CAAAATGTAT GTTGTTTCCT CTCGAGAATT GTGAAGGTTC	350
	TGAGATTTGA TT	362
	(2) INFORMATION FOR SEQ ID :900:	
20	(i) SPOUPNCE CHARACTERISTICS.	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 310 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(5) 101020011 11.1021	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :900:	
	GTATGTAGCC CAGTGGGTGT CTTCCCACAG GGTAGGTACT CAGTTTGCTC	50
	TGGAGGGTGA CTCATACCTA AACAAGTGCA CATCTCCTTT CTCAGTAAAG	100
35	CCAAAGCAGG TTTCTACATT TGGAACAAAA GAGATCCTGA CCAGAGAGCT	150
	ATCACTGGTG GTCCACTTGG GCCCTCCTTG ATGGGTGTGT TCACTTAGAA	200
40	AACCAAATTA CAGATCTGAA GGCTGCTGGG TAGGGACAGG ATTAGAACAA	250
40	AGGGAATGAG ATTGAATGTT ATTTAAGGGA TATTTCTGTC AAGTTTTGGT	300

	TTCTCGATGA	310
	(2) INFORMATION FOR SEQ ID :901:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 185 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID: 901:	
15	TTCCCCCATG AGACCGTTAG TCTCTCTTTG CCTGGCTGAC TACCTGCATA	50
	CAGTAGGCAC TCACTGCTGG AGTGAGGCAC TGACTCCTCC AAAGATTGCA	100
20	GGGGGCGAG GAGGGAACCA CGAAGGCCTG GGAGGGGGCA TCTTTGGCCC	150
	CCACTAACCA TCTCCCTATT TCTGCATCCT GGTGA	185
	(2) INFORMATION FOR SEQ ID :902:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 381 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :902:	
35	ACAAGCTGCA AGATCCTTCA CTTGAGGCTT TCAGCCTTAT TCTCCTCCTG	50
	TCAAACAACT AAACTACTCC GATGTTTGAT GAAAATTAAA CTGCTACTCA	100
40	GGATACTGCA ATTACAAGGA GAGGGAATGA TCAGCCCAGG GAGGCTATTA	150
	COTOTOROROT TICRORITGO COTORITGOC COTTITACIT TITAGROTAC	200

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	AAGTGCAGGG AGGTGGAGCT TATTTGCATT TGAACTCCTG TAAAGAGTAA	250
	GAATATGGAA AGGATGAAGC CTCATTCATT CGGGCATATT AAAAAGAAAT	300
5	TGCCTTCAGA AACACTTTGC CTTTTAATAT GTGTAGCTAC AGTAAGTACC	350
	AATGGGCTAA CTAATTGAAG CTAACATTTT A	381
10	(2) INFORMATION FOR SEQ ID :903:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 240 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :903:	
20	CATCAAGGGT TTTTCCTGCT GCAATTCTTG TCAAAAACTG ACATATGTAT	50
	ATCGTTCTCA ACTGGCAAGC TGTTAGACTG GATAGTCCAT GAATAATAGC	100
25	CTCTGCGCTG TTGCGGGTCC TGCGGAAGTC CTCGGAGCGG CCGTCGCGGA	
25		150
	AAGCTCGGCA AAGAGAGAG CAGAGGAAAT CGAGCATCCA GCCGGCAGCC	200
30	ACTITITIT TATCGGCACC AGGCCGCGTC CTCCTCCTCC	240
	(2) INFORMATION FOR SEQ ID :904:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 280 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
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(xi) SEQUENCE DESCRIPTION: SEQ ID :904:

	CCCTGGGCAG GCTGCTGGTG GTCTACCCTC GGACCCAGAG GTTCTTTGAG	50
	TCCTTTTGGG GATCTGTCCA CTCCTGATGC TGTTATGGGC AACCCTAAGG	100
5	TGAAGGCCTC ATGGCAAGAA AGTGCTCGGT GGCCTTTAGT GATGGCCTGG	150
	CTCACCTGGA CAACCTCGAA GGGCACCTTT GCCACACTGA GTGAGCTGCA	200
	CTGTGACAAG CTGCACGTGG ATCCTGAGAA CTTCAGGCTC CTGGGCAACG	250
10	TGCTGGTCTG TGTGCTGGCC CATCACTTTG	280
	(2) INFORMATION FOR SEQ ID :905:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 225 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :905:	
25	GTTCTAGTGG TAACTGCTGC TTCTGGAAAA TATTTAGAGA AACCAACGGT	50
	AAAAAAAA ATAATAATTA ATACCGTTGG TTTCTACATA CACTCTCAAT	100
	ATTTGCACGA GTAAAGCGTA GCAAGTTTAA CACAACTTAT GTAAACTTGG	150
30	AAAATTTTCC GAAATTTTAT TGACTTTTCT CGGTCTCTCC TATCTTTATA	200
	TACACATCTC TCATGCACAC ACGCG	225
35	(2) INFORMATION FOR SEQ ID :906:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 161 base pairs(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :906:	
-	GGTGCTGACA TCTTCAAGAG CATCTGTCAC TGAATATTGC CGATCTCGCA	50
5	ACCGGTTCCA GTTAGACAGA ACATTGTGAT ATTCAAACAC TTTCTCGTAA	100
	TTTCCAATGG AGTTGTAAAG TTTAATGAGA CCTCGATAAT CATATTCTAG	150
10	TCCACTGTAG C	161
	(2) INFORMATION FOR SEQ ID :907:	
	(i) SEQUENCE CHARACTERISTICS:	
15	(A) LENGTH: 204 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :907:	
25	AGAGATATAT GCAATCTGGT AGTCCATTAA ATGAGAGTTA CACTTAAAAT	50
••	ATTTTAGTTC TTTTAAAGAA AAAGTCTCCA TGTGCTATTT GGGAAAACCT	100
	TCATTGCCTA AAGACCCACT TGCATAATTA AGGCAGATGA TGATGATCTT	150
30	TATATATGCG CACACACAC CACACACGAC ACGACGACAC ACACACAC	200
	TCTA	204
35	(2) INFORMATION FOR SEQ ID :908:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 316 base pairs	•
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
- U	(D) IOFOLOGI: LINEAR	

•	(xi) SEQUENCE DESCRIPTION: SEQ ID :908:	
	AGTTTCTGCA TTTGGTCTGT GTGACTCTAT GGAGCCCAGG ACTTACAGAA	50
5	AAAGGTGTAA CTGGCTCTTA GGACTTTAAG CCACATTATG GTAGTAGACC	100
	TGCCGTTTTA TTTGACATGG TGAAATAAAC TACCACTCCT TTGTGGTACC	150
	ATATGGGCAG GACAGAGCTC TTCAACCCTG GCTAACAAGC CTGAAGAAGA	200
10	CCCTGTGAGG CCGCAGCAGC CATGGGAACT TCCCAAAGGA CAGAAATCCA	250
	CATTGGAACG TAGCATCCAG ATAGGTGACA GAAATTCCTT CCACCATATC	300
15	CAAATGTGTG TGTTTT	316
	(2) INFORMATION FOR SEQ ID :909:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 307 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :909:	
30	CTAGTAACAT AGAAAATAAA CTTCAGTGGG AATCTCTGCT TCCCGCGTGA	50
30	GGTGTTTAAT TCTTGGCATT TTTGTATTTT AAAGATGTAG CAACTTGTTT	100
	CAAGTTAGAG GAGATGGCAG GGTCAAAATT TTAGAAACTG GATCCCACCA	150
35	CCACTGTGTT ACTTCCTAAA CCTGCATACA AATGTTCTGC CAACATGTAA	200
	TGTGCCAATA GAATTATACG GTGTGAACTG CATATCTCAG TATCTCCACG	250
	GGAAAAACT GTGGTTGGGG CATGGAGGGG GGAAAGGGAA ACTTTTTAA	300
40	GCTATTT	307

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	(2) INFORMATION FOR SEQ ID :910:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 172 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :910:	
	TTTTTTTTT TTTCCAGGCA CCTAACGATT TGTTTTGCTC AATCAAACGC	50
15	AGACAGGCGT CTCCGAAGTA CCACCACTGG GATATCCTCG GACCAGCGCT	100
	TAAACCGAAT CCCCACAATC TCAAACTCAA CCAGGCCAAA GGGAACACAG	150
20	TGACACAACA ACAGGGTTCC AA	172
20	(2) INFORMATION FOR SEQ ID :911:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 255 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPȚION: SEQ ID :911:	
	GCATAGAGAG ATATATACAC AGAGAGGACA TACATATATA TATATAGAGA	50
35	CACAGAGACA GACATATAGA GATATATATA TACACAGCAT AGAGATACAG	100
	AGAGATAGAG AGAGATACAC ATACACACT TCATCAACGA GAGAGAAGAG	150
40	AGGAAAGAGA GAGAGAGGA GCACAGACAG AGATAGAGCA CACAGAGAGA	200
	TCGCGCAGAT CTATACAGAG GGATATTCAC CACATTGTAT ATGGAAAGCG	250

	CATCT	255
	(2) INFORMATION FOR SEQ ID :912:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 196 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	(5) 10.020011 11	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :912:	
15	CAAGCGAATG GTAATTACAT GGTCGGATGA GGTCCTCACT CTCAGGGGAG	50
	GGAGGAGGA GCAGAGGTGG ACAGGGCGCA GTATAGGATT TACACTGTTT	100
20	GAAGCATCTA ACGAAGGGCA ACAGTTTTTG GCAACCCAAT TCACAGTTTT	150
20	GCAATTTACA AGAGATTTCT TTGAAAGAAA ATAGGAAGGC AAAGAA	196
	(2) INFORMATION FOR SEQ ID :913:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 203 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :913:	
35	ACTATCACTT AAGGGAAACA AACAACTAAC AGCCATCAAT CCAGAGGAAA	50
	GCGATTTTAC AGTAGAGTGA ACGAAACTNG AGAAGGAAAA CATCCAAGAG	100
40	GCATCTGTTT GACGCGAGCA ACGCAAGGAA CACATACCGT CTGGCAAGAA	150
40	TCCCACTAGG GCCACGAGAA ACAAAGCAAA TTAAAAACATT ATCCACTACA	200

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	CGA	203
	(2) INFORMATION FOR SEQ ID :914:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 262 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :914:	
15	CTGCCGAGCC ACCATGCTTG CCTGAAGCTT CGGCCGCCC ACCCGGGCAA	50
	GGGTCCTCTT TTCCTGGCAG CTGCTGTGGG TGGGGCCCAG ACACCAGCCT	100
20	AGCCTGGCTC TGCCCCGCAG AACGGTCTGT GTGCTGTTTG AAAATAAATC	150
	TTAGTGTTCA AAACAAAATG AAACAAAAAA AAAATGATAA AAAAATCGGA	200
	TTTCCGGTTA ACACTGTGAC TTCAATTGAA ACACCTTTTT GTAGTATCTG	250
25	GAGGTGGACA TT	262
	(2) INFORMATION FOR SEQ ID :915:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 191 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :915:	
40	TGGGTTCTAA TGATGTGCTT GAAGAGGAAG ATTTTGATCG CACCACTGAT	50
	ACACGGAGTC TGTATTTTGC ATCCTAGAAT GATTAACCAG AAACAAAGAA	100



	AGGAAAAGG TAAAATCAAT AATAAGATCA GCAGCTCTGG GACACAGAAT	150
	AAAGAATGAA ATAATTTGAA AAAAAAGGCA GGGCAGGCAA A	191
5	(2) INFORMATION FOR SEQ ID :916:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 252 base pairs	
10	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :916:	
	AGACTTGGGG GTTCCTGGTG TGTGAGGGGT CCTGGGATAG CTAGGGGTTT	50
	TCCAGGAGTT GTCCTTTGTT GTTTGTCGTG AAGAATTATA CTTTGTGTGT	100
20	GTGTGGGTTG TCCCATGTGT ATGCGTGTAG TGTGACAGTA TATGACCCCC	150
	AGTGTGTGCA TATGTTTGTG TGGTTGTCTC TGAGTGATAT CCACCTCTCT	200
25	CTCCCCCTCT GTCTCTCTGC AGAGATATGT GTGGCGTCAC TGTACTCTTG	250
	TG	252
30	(2) INFORMATION FOR SEQ ID :917:	
30	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 247 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :917:	
40	TAGACAGAGT GACAGTGAGA GAAAAAGAGA GGAAGGAAAA GGGAAAAGGA	50

•		
	GTAGGGAAGG ATGAGGGAGA TAGGAAAGCA CCTAC GAG GCAGAGAGTT	100
	TCCTGAAGGT CATGCGATCC TTTACCCTCA GAAACTTTCA GGCTGAAATC	150
5	ACCATCTCCG TTATCCCAAC AAACGCACTC TCCTACCTCT ACAAGCACTT	200
	CAAGTAAAGC AGAAATCACA CCAATACTGA CGNGCTTCAA GCGCAAC	247
10	(2) INFORMATION FOR SEQ ID :918:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 191 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :918:	
20	ATTTGGATTC AATTGCCTGT TGCACTTTTA CATTAAGTGT TGCTTAAATA	50
	AACAAAAATA GAGCATAAAT TCAATATTCT ACTGTCTAAA CATTTTAAAG	100
25	CAATGGTTAT GCCATCATAA ACAAGTAAAA TGCACCTAAT TCGAGTCTTT	150
	TGACACCTCT TGTTTTAAGT TTCCTGTATG ATAAAGTTCT T	191
	(2) INFORMATION FOR SEQ ID :919:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 205 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :919:	

	ACAACCTCCT CATTTTCAGA AGCGAACACA CCCCCCCCC AAGATAGACG	100
	ACAGAGACCG GACTAAGATT TAACCCAGGA ACTTTTCGCT TGGGCACCTT	150
5	CGAACAACAC ACAACCCGCA AAACCATACA CGCTCCCTTG CCCGAGGCCC	200
	AACCC	205
	(2) INFORMATION FOR SEQ ID :920:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 323 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
15	(b) Toroboot. Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :920:	
20	GACAAATTG GGACTCTAAG TATTGCGCTT TTTTTTCCTC TCCAACGACT	50
	GACAAAATTG GGACTCTAAG TATTGCGCTT TTTTTTCCTC TCCAACGACT	30
	CGTTCCCTTT CAACAAATAG CACTTCAGTC CACTGTGTAC AGAAGTAATA	100
25	CATCTCCTAT CGTTAGTTGA ATAAATTCAC ACACCGCGTT TAAGAGATGA	150
	AACCACGACT TCGTCAAGCC ACATTCGATT GCCATAAGAT TCCAAAGAAT	200
	TCTATCCTCT TAAAGCGAAC CACATGTAAC CCGAAGGTCC CCACCTATCA	250
30	TOTALCCICI TARAGOGRAC CROMITITANO COGNICOTOS CONSTITUIO	
	AGGTTAGAAC TGATATTCAA ATTATAGACT CATTCCACTA AGCAAGTAAG	300
	CTCTAAGCTA CAGGTTGATC ATA	323
35	(2) INFORMATION FOR SEQ ID :921:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 230 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :921:	
-	AACATTGACG ACGCTAAGGA TGCCATGATG CCATGAATGG GAAGTCTGCA	50
.	GATGGACGGC AGATCCGAGT AGACCAGGCA GGCAAGTCGT CAGACAACCG	100
	ATCCCGTGGG TACCGTGGCG ACTCTGCTGG GGGTCGGGGC TTCTTCCGTG	150
10	GGGACCGAGG CCACGGCCGT GGACTCTCTA GAGGCGGCGG GGATCAAAAC	200
	TATAGAAACA ACAAGTTAGA GTACAGACGT	230
15	(2) INFORMATION FOR SEQ ID :922:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 239 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :922:	
25		
	TATTTTCCT GATGTTCTCC CTTCCTCCAG TCCCCGACCT CCCACAGGCC	50
	CCAGTGTGTG TTGTTCCCGT TCCTCGTGTC CGTGAGTTCT CATTGTTCAG	100
30	TGCCCATTCT GAGGGAAAAC ATGCCAGTGC TTTCGCGTTC TTCCTCGCTC	150
	MCA COCA COM, CMCA COMMAN, COCCADOROS COCCADA DA CARRA COCADA COC	
	TCACCCACCT CTCAGCTTAT CGCGTCGCGC GCGCAGTATA TTCGTCTCTC	200
	TCTCCAGTCT CTCTCGCGAC ACACATCTCT CTTTTGTAA	239
35	(2) INFORMATION FOR SEQ ID :923:	
	(i) SPOUPNOE CHARACTERIOR	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 178 base pairs	
40	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(D) TOPOLOGI: TIMEAR	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :923:	
5	GTCAGTTCAG TTGTGAACAA AGCCCTTTGT GTACGTTTTT AAATTTTAGT	50
	TCACACGATA ACAATGCTTT GCAAGTAGGT GTAATTATTT TACTCCCATT	100
	TTATGGATGA GAAAACAACA GAGAGGTTGA TTGGCCCCAC CTTCAAATCC	150
10	TGAAACCCGT CCACTCAATA AATTTTTG	178
	(2) INFORMATION FOR SEQ ID :924:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :924:	
25	CAGCTGGTCC CCCACTAAAA GAAGGGGCAG ACCACCACTA GCCAAAAGAG	50
	ATAGCAAGAC TAACATCTGG AAGAAGCGAG AGGAACGCCC ACTGATTCCC	100
30	AAAAAAAAC TCCAATGGGG ATTGTGTGTC TGCTGTCTCG TGCTGTTTAT	150
50	TCTTGCTTCT TGTTGTAAAT TGCAGTACGA ACTTAAGAAA ATGAGACTGA	200
	GCAATCTCAT GGTTCTTGGA CATGTCTCAA GCAGAGTAAA TGGTAATTCA	250
35	GTAATCAGAG AGAAAGATAC CAAGGAATGC TTTTTCTGGC CTATTCATTT	300
	ATTTTTGGGG GATGAATTTA CAGTA	325
40	(2) INFORMATION FOR SEQ ID :925:	
	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 261 base pairs

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(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
		•
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :925:	
	ATGGCTATGA CCTGGGACAT GGAAACAGTG ACCTCCGCGT TCTGGTCCCG	50
10	AGATCCTCGC ATCAGCGTCA TCGTGTGCAC CGGCTTGGGG GGCTGGAGTT	100
	AGAICCICGC AICAGCSICA ICGIGIGCAC CGGCIIGGGG GGCIGGAGII	100
	CCGGTTTTCT TTGTTTTTTC TCTTTATTCG TCCTTTCTCA AAGATGGGAT	150
15	ACTGATCAGA ATCGTTCTGT ATATGCTTGG GACTGGATGG AAAGACTTTG	200
	AAGCAGCTGT GGGGGGGGGG AGGACACCGA CAACCAAACA GACGTGTTGG	250
	TTCCAGTCCT G	261
20		
	(2) INFORMATION FOR SEQ ID :926:	
	()	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :926:	
	(XI) SEQUENCE DESCRIPTION: SEQ ID :926:	
	GTCAGCCTGG GCAATCACAA CGACAACAAA AGGTACAGTC TCAAGAGTCC	50
35	AACTGGGTTC AAATCCTGGC TCTGTCACAT ACTAGCTGTG TGACCTTGGC	100
	Chacmana hacamana mananana area area area	
	CAAGTTTCTT AACCTCTCTG TGTGTATAGT CCTTATCTGA AAATGGGGAT	150
	AACCAACCAA GAGAGCTGAG AGA	173
40		
	(2) INFORMATION FOR SEQ ID :927:	

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5

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(A) LENGTH: 223 base pairs

(i) SEQUENCE CHARACTERISTICS:

(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

	(xi) SEQUENCE DESCRIPTION: SEQ ID :927:	
10	AACACTCAGA CCGGACGGGA CGAGGGATTC CCCTGCCTTC GCTTCCCTCC	50
	CTCGCTTGCT TTGTAGTTTT CCCGCACCAG CCCGCTGCCC TGCGCCATCC	100
15	TAGGGCCTCG AAGCCCGGGG AATCTGTCCC ATCCTGTAAC GGGCCGCCCC	150
	CTTNGATTTT TCTGCCCGTG CCACCGGAGG TTGCTGCGAC GCGCACCGAC	200
	TCAGATCATT ACTACTGAAC TCG	223
20	(2) INFORMATION FOR SEQ ID :928:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 212 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :928:	
	GTTATAATTA TTTACATGCT GCAACACGTC ACAACATAAA TTTACCAAAT	50
35	ATTTCATGGT GGGATGCTGT AGGTTTCAGA TAATAGTTTT AAGATAAAAA	100
	CCACAGATTA AGTGAAGACA CCCACAACTT TAATGACTCT ACGACTCTCG	150
	GTTGCTAAAT GCTAGAAGTC AAAAGGCAGT GTTTTTTCAG TCCTACCTGT	200
40	CATAACTTGC AT	212

	(2) INFORMATION FOR SEQ ID :929:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 233 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :929:	
	TTAACATAAT ATTTTGAATA TATAGGGCTC ATAAGATATA TTATTAAATT	50
15	ATAAACAAAA TAATCAGGAA CTTAGTGTGG TGCCTAGTTT GATATATGAT	100
	TACTTTTTGA AATGCACTAA ATTCCACAAA TAATGAAAGT ATTCTTTGTG	150
•	TATAATGTTA TGTTTGGTTA TTATGTATGG TCTTCGTATC CAAAGGTATG	200
20	ACATAACTTG AGTTTGTTTG CTTGGTATTT ATT	233
	(2) INFORMATION FOR SEQ ID :930:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 235 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :930:	
35	AGTCTGTAAC GATACACCCA TAGATGTGAA TTATGTATAT TCGAGAAGGA	50
	GATCAGATGG CATCCAGAAG ATAGTTTAGA TTTCAGCACA TTCATGGTTC	100
	AGATGCAAAA TCAGATCATC AAATAGATCC AGCAATTCAC AATCATCATA	150
40	GCCATATCGC GTCACGTCCG CCGCACAAAG ATCCGCACCA ATTATCTATC	200
	· · · · · · · · · · · · · · · · · · ·	

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	TCCCACCCC CCCAGGCATT CAGCACCCGC AAAAG	235
	(2) INFORMATION FOR SEQ ID :931:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 221 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :931:	
15	CTATCTAGAA TTACTTATTT CACTTGAAAT GTATGGTTTC AGGAAAATTT	50
	TCAATTTAAC TTGAAGGGAT TATCTCTTAT TTTGCTTGGA ATAATGGCAT	100
20	CTCAGAAACA TGGGTTTACC TGTGATTTTT TTGTTTGGGT GAATGCTTAA	150
	AAACAAAAA AAAATTTACA TATGCATTTT ATGGATACAC ACACACACAC	200
	ACACACAC ACAAAAACA C	221
25	(2) INFORMATION FOR SEQ ID :932:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 333 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :932:	
	TGCTCTATTG CTATCTCCTG ATATAGGTTA TATATATATT ATGTCTTGAG	50
40	CGTCATGTCT TGTGCTACTA CACCGTGTTA ATCCCAGCTA CTCAGGAGGC	100
40 .	TGGAGGATCG CTTGAGCCCA GGAGTTCTGG GCTGTAGTGC GCTATGCCGA	150

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	TCGGGTGTCC GCACTAAGTT CGGCATCAAT ATGGTGACCT CCCGGGAGCG	200
	GGGGACCACC AGGTCTGCCT AAGGAGGGGG TGAACCGGCC CAGGTCGGAA	250
5	ACGGAGCAGG TCAAAACTCC CGTGCTGATC ATGTAGTGGG ATCGCAGCCT	300
	GTGAATTAGC CACTGCACTC CAGCCCTGAG CAA	333
10	(2) INFORMATION FOR SEQ ID :933:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 281 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :933:	
20	, , <u> </u>	
•	AGATTTATGG CTGCTTTCAC TTGGCTCCAT GTTCTGCTGA TAATTAAACA	50
	GTTTGTGTGT CCTGTCTTTC CTCAAAGGAA CTTGTCAACC TTTGGAATTT	100
25	TGTTCATCTC AGAGGGACGT CTTAAGTACT CAGCTTTCTG AATGTTTAAG	150
	AAAAAAATAA TACTTTTCAG AATTACCTAC CTCTTTCTCA TTTTTAGCCT	200
30	GGGATCAATT ATTCCCTTTC ACACTTTTTT ACATCCTAAG TAGAAATAAA	250
	ACTCTTTATT CTATTTTTT TCAGTTATTG G	281
	(2) INFORMATION FOR SEQ ID :934:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 266 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	•	

•	(xi) SEQUENCE DESCRIPTION: SEQ ID :934:	
	AATCTTGTAT TATGTTAATA TTAAAATCTA ATAATAAGAT ACTGTAGAAG	50
5	TATTTTACAT TTTTGGGGTA TAGGCACAAA TATATACATT TAAATATTAG	100
	TAATAGAATT GAACAATTAA CTATAAAATA TTATATCATA ATAAACTGTT	150
	GTTTTATCCC AAGGGTAGAG GGACTCTAAG TAAAACTGTA ACAGAATCAA	200
10	AAGGTTACTG ATAGTTAGAA TGGGTTGAGA ACTATTTTAA CTTGGGAACT	250
	TTAAATAAGT AAATCT	266
15	(2) INFORMATION FOR SEQ ID :935:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 178 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :935:	
	GGAAAACAAA TGTAAGGAGG GAATTCAAAT ACCTAGTTAA TCTATTAACT	50
	ACTAATAACT CATTAAATAA ATTAATAATA TTAAATGATC TGTGTGTTCC	100
30	ATGCAAATAA CAGAATGATT TCCACTGAAT AGTCATGATG GTTTAAAATA	150
	TTACTCTAAC ACCAATAACA ACACGTAA	178
35	(2) INFORMATION FOR SEQ ID :936:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 224 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :936:	
_	ACTCAGCTCC GTGCGACCCA CATGGCCCCA GGCGGGGGA CACCAGAGGC	50
· 5	TCCTCCATGA GCAGCAGGAG TGAGCGGAGG AATGTGCCCC ACAGCAACTT	100
	TCCCAGCCAA TGCCACGATG GAGATGACAA CCCCAGATCT GGGGANACAG	150
10	AAACCACTCA GAACGGCACA GGGTAACTGG CCCCAAACGC TGAAAGTTAG	200
	ACTTCACCCG AATTACATTT ACCA	224
15	(2) INFORMATION FOR SEQ ID :937:	
15		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 270 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :937:	
25		
	ATTTTTTTC CCAAGAATCC CCAACTCAAT AAAACCGTGA AACAATTGCT	50
	GGGGATGGGT AGAGAAAACC CATTTATAGT ACTTTTCTGC CTTCTTGTGG	100
30	TTTTCGGCTT TGCGATCAGG GACTGAAGAT AGAAGGAAAA AAAAAAAAA	150
	AAAACAAACA CAAAAACATT TCAAAAGAGA AAGGAAAAAA CTTTTTCCAA	200
		200
	CCAAAACTCC TAAAAAACCC AAAAACAGAA CAACCAATTA AACCCGACCC	250
35		250
	GACACAACTA CCAATGACTG	270
		270
	(2) INFORMATION FOR SEQ ID :938:	
	(-) the committee ten end to (1) do.	
40	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 215 base pairs	
	(B) TYPE: nucleic acid	
	(a) Treat Heaters deta	



(C) STRANDEDNESS: double	(C)	STRANDEDNESS:	double
--------------------------	-----	---------------	--------

(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID :938:

	AGCCTTCTCC	CTATTCGATA	AAGATGGCGA	TGGCACCATC	ACAACAAAGG	50
10	AACTTGGAAC	TGTCATGAGG	TCACTGGGTC	AGAACCCAAC	AGAAGCTGAA	100
	TTGCAGGATA	TGATCAATGA	AGTGAATGCT	GACGACAATG	GCACCATTGA	150
15	CTTCCACAAA	TCTTCAACTA	TGATGCCTAG	AAAAAAGAAA	GATACAGATA	200
15	CTAGAACTAA	AGTCA				215

(2) INFORMATION FOR SEQ ID :939:

20

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 303 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

``

(D) TOPOLOGY: linear

25

(xi) SEQUENCE DESCRIPTION: SEQ ID :939:

30	TGTCGTCCTT	AATATTTCTN	AGCCTTTTGT	CATAGAGGTG	GTCGGTTGGA	50
	CCTCAAAGCC	TCCATCTAAT	TTTTTTTGTC	TATGTTTCTA	TATCTCTCTC	100
35	TTTTACGCTT	CTTTCCCGGA	ссстсссстс	CCTCTACAAT	TATATTTACT	150
33	ACCTTCATGA	TTGCTTTTTA	TTATTTCTTT	CACTCATCAT	TATTGTTCAT	200
	TTTTTAATTA	ACAATTTTTT	TCATTATTCT	TTTTCTTAAT	TTGTAACCCG	250
40	TTTCTAATTT	TCTCAATTAT	TGCGCTTTCT	CAACCCCCT	CCTTCCTCAT	300
	TAC					303

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	(2) INFORMATION FOR SEQ ID :940:	
	(i) SEQUENCE CHARACTERISTICS:	
E	(A) LENGTH: 330 base pairs (B) TYPE: nucleic acid	
5	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(2) 10:02001. 11:1011	
10	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :940:	
	ACACTATTTT CAAAAATCCA AATAAAAGTG CAGTTTCAGA CTTTTTAAAA	50
15	AAACACCGTT GACCTGTCTT AGTTGTACAT TCAGAAAATG TAGCCTCGAG	100
	CGTTTGCATG CAACACTGCA TATTTTTTCT AATCAGATTA ATATGAGTTT	150
20	TAATGTTTAG CATGAACTAC AGCTAAGGAT AAAAATTTTA AAGTAGCTTT	200
	CATAGTCTAG ATTCCTGGTT TCATAATGCT TTATGTAGTA CATTTCAGTT	250
	TGCTTTGCTT TGTGGAGACT TGCGCGTATT TTCTTTTGCT TGTTTGTTTA	300
25	TCGCCAGGCA GCGCTGTTCG AACTGTGAGA	330
	(2) INFORMATION FOR SEQ ID :941:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 107 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :941:	
	TTTATTTCAG ATAATTTTAT GTAAACAAAT TAAGAGTTAT TCATTCAAAT	50

TTTTGGCAGT GTTAATCTGT AAATGATGAC TTGATGTACA GAAAATGCAT

	TTTTGCT	107
	(2) INFORMATION FOR SEQ ID :942:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 126 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :942:	
15	CCACAGCATA CACACCTTGG AAACCAAGAA GACTCTTTGT GTGTGTATGT	50
	GTGCGAGACT GACGCGTCTC TACGCGCTCT ATGGGGGGAG ATTTGGTTAT	100
20	TTCGGCGTTA CACCTCCGGT GTTCTC	126
20	(2) INFORMATION FOR SEQ ID :943:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 155 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :943:	
	ACTGAACAGC CGCTGGTTCC AGAACAGGCA CAGAAGGCTC CAGCGCTAGA	50
35	AACAACTGGC ACAGGAATGG TAACAATAGT CTGGCTCAGC CACAACAGGA	100
	GGCTCCGGGA CAGTCACAAC CGAGAGCTTC CAGGACAGTT ACAGTCTGTA	150
40	AGCTC	155
70	(2) INFORMATION FOR SEQ ID :944:	

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(A) LENGTH: 287 base pairs

(i) SEQUENCE CHARACTERISTICS:

	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :944:	
10		
	CGTGAGGAGC AGGTACCATT TTTAGTAGTC ACACAATTCC ACCTCCTGTT	50
	TTTACTACTG GCAACTTCTA CTTGAGAATA ATGTTCTGAA AATGGAGGTG	100
15	GGGGGGGTT TGGAAGCAAA CACATTTGGG GTTTTTAACC AATTGTTAGG	150
	TTCTTTTAT TTAGGGTTGT GCAGGGAACT GTTGGGAGGT TTCTTTAGGT	200
	GGGATGGGGG GACTGGGTGT TGGTTTTTGG GGGGTTTTTG GGACGGGTTT	250
20		
	TATTTTGTCC CTTAACTTGG TTTGTTGGGC AGGTGGG	287
	(2) INFORMATION FOR SEQ ID :945:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 149 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
30		
	(wi) SEQUENCE DECORIDATON, ORO TR. DAG	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :945:	
35 •	ATCATTGATC AATGATATGG TTTGGATTAC TGCCCCGCCC AAATCTCTTG	5.0
		50
	TCCAATTATA ATCCCCAGCA TTGGAGGAGG GGCCCGGTGG GAGGTGATTG	100
	The state of the s	100
•	GATCATGGGC ATGGACTTCC CCCTTGCTGT TTTCGTGATA ATGAATTCT	149
40		742
	(2) INFORMATION FOR SEQ ID :946:	



(A) LENGTH: 261 base pairs

(i) SEQUENCE CHARACTERISTICS:

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :946:	
10	TTTAAACTGC AAATAGTCGT TACAAAAAGT TTTNNNNNTT CTTTTAAATA	50
	AATTTCACAC AAAGAAAGAG AAATAGAAAG CGACGGTAGT GACCAGCAAG	100
15	AGGAATAATA ATTACATTCA TCTTAATGTG TGTGTGCCAG TTCTGTTTAC	150
	ATTAACATTG GAAAACTCCA GACCTGGACA CCAGAACCTC AAATCTGTGA	200
20	GTGGAATGTC TTGAGATGGG CACGCTGGAA GTCAAAGGGT TTCTCTTTTT	250
20	TTTTTTCCC C	261
	(2) INFORMATION FOR SEQ ID :947:	
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 264 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :947:	
35	CTTTAGGAAC TGTCAGCATG TTGTTGTTGA AGTGTGGAGT TGTAACTCTG	50
	CGTGGACTAT GGACAGTCAA CAATATGTAC TTAAAAGTTG CACTATTGCA	100
40	AAACGGGTGT ATTATCCAGG TACTCGTACA CTATTTTTTT GTACTGCTGG	150
40	TCCTGTACCA GAAACATTTT CTTTTATTGT TACTTGCTTT TTACACTTTG	200

	TTTAGCCACT TAAAATCTGC TTATGGCACA ATTTGCCTCA AAATCCATTC	250
	CAAGTTGTAT ATTT	264
5	(2) INFORMATION FOR SEQ ID :948:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 149 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :948:	
	CCTCGACTTA CCACGGGTGA TCCCAGAATG GACTATCAGC GGTGTTTTGA	50
20	GCCAGGTTGA TTGAGCACTG GGCTCCAACT TATTGTTAAT GAGAAACGGC	100
	CCAACTTGGA CCATGACTTT CCCATTTGCA GGTCTTAGAA TAATTTTTT	149
	(2) INFORMATION FOR SEQ ID :949:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 242 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :949:	
35	CGCTCAGGGT GGAAGTGGCC GGGCGCGTCG AATGTGCCGA GCTGGTGCGA	50
	GTGGGCGAGC AGAGCGCCTT GAGGGTTGAG CATCTTCTGG ATCCAGCAGA	100
40	GGCCTCCCAG GAGGGGAGCC AGGTGGCTGA AGGCAAGCAC TTTNNNNAGG	150
	TTCTAGTCCC CTTTTTAGAT CCTAGGGGAC TGGAGATTTG GCACCTTCCC	200

	CCAAGGCTTG GCCTCGTGCC CTATAGGGTG CCCCCCTCTC TT	242
	(2) INFORMATION FOR SEQ ID :950:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 153 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :950:	
15	ACTCTGCCTG CACTATAAAA TGAACCAAGG AGGATCCAGT TTGCTGTCTG	50
	CACTGACAGA TTTACAGACA GGAAAACAAA GCCTTACTTA CCAGGAATCC	100
20	AAAGTTTATA CATGAAAATT TAAAAAGGGA GTCTATGCAA AGCGGAGTTC	150
	AGG	153
	(2) INFORMATION FOR SEQ ID :951:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 128 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :951:	
35	TGCGGGAGTC TCACTGGGGG GGGGACACCT GTGCAAACGC GTAACGCAGG	50
	TTGTTCCTAA GGCGAGCTCA GGGAGGATAC AGAAAACTCT CCTGTGGTGC	100
40	TATGAAATGT GGCGTAAAAA GCATTCTG	128
40	(2) INFORMATION FOR SEQ ID :952:	

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(A) LENGTH: 213 base pairs

482

(i) SEQUENCE CHARACTERISTICS:

	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :952:	
10	GTTGGAAATT TCCC TAAAT CACCTACCGA TTACCCTTGA TTTCCCTTTG	5(
	TTTTCAGTTT CTCAAAACGA ATGAAATAGA ATATAGCAGA ATGTTAACCC	100
15	ATATAAAAT AAAGTGTACC CAAATATTGT AATGTATATT GCTGCTCTTC	150
	TTCAAATTAA ATAAGGGTTT AAAACCACTT AATTGGTAAT ACAACATCTC	200
	AATTGATACA AAT	21:
20	(2) INFORMATION FOR SEQ ID :953:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 236 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	•
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :953:	
	GCAGCAGTTT CTTTGAAAAT TTGGACCAGA AGGTGCATAA CAAGTTGTTC	5
35	TGCAGAAGTT CTTATCTGAT ATTCTTAGGG AGCTATCCTG CATGTAATCT	10
	TCATTATTTT TTTTCTCTAC CATCATGTAG GCATACTCAG TGTAGACTAC	15
	CACAATCCTG GATACCTCTC TGCTTAGATT TACAATCTCT GCTAAGATTT	20
40	GCCACTGCAG AAAGTGTAGT ATTTTCACTA CATTAT	

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5

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(2) INFORMATION F	OR SEQ ID :954:
(i) SEQUENCE	CHARACTERISTICS:
(A) LEN	GTH: 217 base pairs
(B) TYP	E: nucleic acid
(C) STR	ANDEDNESS: double
(D) TOP	OLOGY: linear

10 (xi) SEQUENCE DESCRIPTION: SEQ ID :954:

	GCAGCAGTTT	CTTTGAAAAT	TTGGACCAGA	AGGTGCATAA	CAAGTTGTTC	50
15	TGCAGAAGTT	CTTATCTGAT	ATTCTTAGGG	AGCTATCCTG	CATGTAATCT	100
	TCATTTTTTT	TTTCTCTACC	ATCATGTGAG	GCATACCCAG	TGTAGACAAC	150
20	CACAATCCTG	GAAACCTCTC	TGCTTAGATT	TACAATCTCT	GCAAAGATTT	200
20	GCCACTGCAG	AAAGTGT				217

(2) INFORMATION FOR SEQ ID :955:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 256 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

30

25

(xi) SEQUENCE DESCRIPTION: SEQ ID :955:

35	AGCAGCGACC	GCGCTCACTG	GCTTTTTGTT	TCTGCTTGGG	CCTTTTCTGT	50
	TCAGTCCATG	CTTGAACTAC	TCCACCCCCT	TAAATCCAAC	GTAAAAACCA	100
40	GTCTTTTCTG	TGCTTGTTCT	CTGTGCGTTA	ATGCTTTTTC	TTATGCTTGC	150
40	ምምእ ምምር እ.አ.ም	እርጥር ጥል ጥጥጥ	САПТСТСССС	TCCCCDDDDC	ATCTCACTCC	200

		•
	TGAAACCATT TTAGATACTC TACTTTCTTA CTGTGTTACG TGGCATTTTA	250
	TGCTTG	256
5	(2) INFORMATION FOR SEQ ID :956:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 194 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :956:	
	(XI) DEGOLAGE DESCRIPTION. DEG ID . 330.	
	CAAGCAATTG AGAGACTTTT TTCCTGTTAT TTTTCTACCA TTTATTTCTC	50
20	ATTTCATTAT ATTATGGTCA GAGAATATAT TTTGAATGAT TTCATTTATT	100
	AATTTTTAAA AATAACATTA AAAAATTTTT TAAAATGTGA ATATACCACA	150
	ATACAGTATA AAGATTGTAC ATTCTGTTTT TGGACAGTTT TCTA	194
25	(2) INFORMATION FOR SEQ ID :957:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 196 base pairs	
20	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :957:	
	ATCTATTTT CTTGGTCTCA TACTCAGTTT TTTATGTAGT CACTTAGTAA	50
40	ATAACCTAAA AAAACATGTT TTCTCCACAC TAATTTTAGG GTGAATTCCT	100
	CATTTCGCTT TTCAGATCAT GGGGTGAGGG GGATGGTTCG TGTGTGTGAG	150

	GAACTGAGGA ATCAGATGGA AAACAATGCC TCTGCTCCTT TGAGTA	196
	(2) INFORMATION FOR SEQ ID :958:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 105 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :958:	
15	GCGCTCAGCT GGAACTTCCG ATCTATTTTT TCTTGGTCTC ATACTCAGTT	50
	TTTTTATGTA GTCACTTAGT AAAATAAACC TAAAAAAAAA CATTGATTTT	100
	TTCTG	105
20	(2) INFORMATION FOR SEQ ID :959:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 261 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :959:	
	GACAGCGACC GACACTCAAT GGAATCCCGA TTCCATGGAA ATGGAAAATA	50
35	GCTCTATTTA TACAGCAAAT TCAAATACAG TAGCTTGCTA AGCAACTTCA	100
	TAATTCATTA ACACTCGATG GCAGAGCAGA TAGTCACAAT TACTAACGAT	150
	TATCATGATC TGCATTCTTG ACAAGTATAC TATGGCGAGA TAAATCAAAC	200
40	TCAGACGATG ATAAGCAAAC TCAAAAATGA AAATGATGAT GCCAACTAAG	250

	CTTTTGTTAA A	261
٠	(2) INFORMATION FOR SEQ ID :960:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 188 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :960:	
15	CACAGTTTTG TTGACTAAAC TCTACAGAAG TCAGGTATTG GGAAGGAGAA	50
	TCGTTTCTTC TTTAGAGGAG TAGGTTTTAA CCATGTTAAA TTTCCAAGAA	100
20	TAAATTTATT TATCACCTCT ACACAGCGCA GACCATTTCA GGAAAATAAA	150
	TAATTTTCGA TTCAAGTACT ATACAAACTT AACGATGG	188
	(2) INFORMATION FOR SEQ ID :961:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 191 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :961:	
35	ACTTTCGCCT ACCCGGAGAG GCCCAGAAAA TTGACCAGAT GATGGAGGCC	50
	TTCACCCAGC AATACTGCCT ATGCAACCCT GGAGCTTTTC AATCCACAGA	100
40	CACACGCTAT GCACTGTCCT TCGCCATCAT AACGCTCAAC ACCAATTTCT	150
70	ACAACCAAAA AGCCAGAGAC AAACCTGACC TAAAGCGCTC C	191

(2) INFORMATION FOR SEQ ID :962:

(2) INFORMATION FOR SEQ ID :964:

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 191 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :962:	
	CCAAGGCAGA GTTTATTAGG TTTATGCTTT ATATTTATAT ATAAGGTTTT	50
15	ATTCATGTTA AAAACTTAAA ACCAACGGAT TATGCAAAGT GATAAGTGTA	100
	TCAATGAATA TACAACTGAC TGGATTTTAA ATATACACAA ACCAGTATAC	150
	CCCCAGTACT TAAATGAAGG CACTCAGTAT ACACCAAAAT T	191
20		
	(2) INFORMATION FOR SEQ ID :963:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 178 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
٠		
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :963:	
	AGCAGGCCAA AAGCCCAGGT GAGGCCCAGC AGGAACAGCA GCCCAATGCC	50
35	TCCTAGCACT CAAGATCCAC CATAGTCCAA GCAACTGCAG TTACACTTGA	100
	GT1G111TAG GGTGGGG1G1 GGGTGGTTGG1 GGGTGTGGT 1115G1G1G	150
	GTACAAATAC GCTCCCGACA GCCTCATGCA GCGACACCCT AAAGGACACC	150
	CCARCACCAM CARMANCCCA AMACACMA	178
40	CGAACACCAT CAATAACCGA ATAGACTA	1/8
40	(2) INFORMATION FOR SEC ID -064.	

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 199 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :964:	
10		
	ACTTTGCAGT CCTCACATCA CAAATAGAGT AAAAGATTCC CAAAAGGAAG	50
	GGGATCCTTT TGACTGCCAG ACGCGGGAAG GAAAGAATGA AATTAAAGAA	
	GOGATECTIT TGACTGCCAG ACGCGGGAAG GAAAGAATGA AATTAAAGAA	100
15	TATCCTTTTA AACACACAC TCGACACAAT TTTCCACTCT GCTAAGGGAT	150
	TITOCACICI GCIAAGGAI	150
	CACAAAGACT AAGACGCGGG CAGACTCCCC ATAAGCCACG CTTATAACC	199
	•	2,7,
	(2) INFORMATION FOR SEQ ID :965:	
20		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 217 base pairs	
	(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :965:	
30		
	ATGGAGCAGG ACCTGCGATG TTCTGATGGA TTATACCCAC AGTGTATTTT	50
	•	
	GGCACATCTG CCAAAAGCTA CAAACAACCC CTAATAATTA CACACTACAG	100
35	ATAGTGAGAA GCGTCCTACC CAGGAGTCCT GAATGTGATC TGAGTATGCT	150
	CTAAGGCAGC CCCAGGAAAA GCAATCCAAT CCCTTTCTCC TCGCCTTTAA	200
	ACCTICALCON TOO COM	
40	ACCTGCAGGT TGGGGCT	217
. •	(2) INFORMATION FOR SEQ ID :966:	
	(= , = =	

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 175 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :966:	
10	ATTTGCGACC AAAATCATCT GGGTTTATAT TTGAAAAAAC CTTGTTTTCC	50
	AATTTAAAAA TGCCAAGAAA GTTGTGAATA CCGTTCATTA TCACTAGGAT	100
15	CAAGAAAAG CAAATGGTTT AAGTTTTTAC ATAGGAAATC TAAGAACTAC	150
	TCATCAATAA AACGCAACAC TATCA	175
20	(2) INFORMATION FOR SEQ ID :967:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 92 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :967:	
	AGGGGTTCAG GCCTGGAGTC AGGGAAGAAG GGGAAAGGGG CAGATAGCTG	50
	GGGGACAAGG AAAACCTGGC GCCCCCCCCCCC GCGAAAAAACA CA	92
35	(2) INFORMATION FOR SEQ ID :968:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 208 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: lin ar	

(xi)	SEQUENCE	DESCRIPTION:	SEQ	ID	:968:

	(XI) SEQUENCE DESCRIPTION: SEQ ID :968:	
F	GTAATATTAG GGACATGAAT GTTAGTACAG TAATTACCAC ACATGGAAAA	50
5	TATTGTTCAG CAGGAAAAGT AAAACTTTCA AAAAATTCCC TAAAGATCCT	100
	ATTCAATAAA CAATTTTAGA TTTAAGGAAC CACTTACGCA AAACTCGAAC	150
10	AAATAACCGA AAACTCCACC TACCGCGCAA TACTCAAAAA CACAAAAATA	200
	CTACTAAC	208
15	(2) INFORMATION FOR SEQ ID :969:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 256 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(4, 56362621 22.1612	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :969:	
25	AGTGGTTGGT GTTTACTGGA ATCTTGTTTT TTTTTTTTCG GTTTTTTTGA	50
	CTACTCGGGG GGTTTTCCTT TTTTACAGGA ACTAAATCAA CAAACTTTTT	100
30	CGATTCCTCA ACTTTAGATT TTTATTTTTT TTGATTACCA TTTACTTTTC	150
	TTCATTTAAA ACTTTTAACG CCTCAGCCTT TTTCTTAGGC CAAGGCCTTC	200
	CACCAAGGAT TTACTCCGGG ACGGATCTAA CTGGATTTTC CGAGGTGGGT	250
35	TTAAGA	256

(2) INFORMATION FOR SEQ ID :970:

- 40 (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 240 base pairs
 - (B) TYPE: nucleic acid

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491

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear 5 (xi) SEQUENCE DESCRIPTION: SEQ ID :970: 50 AATCTATTTT CCTTGGTCTC ATACTAAGTT TTTTATGTAG TCACTTAGTA AATAACCTAA CCCGCTTGTT TTTTCCACAC TAATACTAGG GCGAATTCCT 100 10 CATTTTATTT TTAAGATCAT GGGGCGAGGG AGATGATCGC GAGCACGAGG 150 ACCTAAGACA TCAGATGAAA AACAATGCCT CTATTCCTTC AAGTATAATA 200 15 AATGATACCC GAGAGTAAAG AGCTACACTT CGCACCTCTA 240 (2) INFORMATION FOR SEQ ID :971: (i) SEQUENCE CHARACTERISTICS: 20 (A) LENGTH: 184 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID :971: ATCTATTTTT CTTGGTCTCA TACTCAGTTT TTTATGTAGT CACTTAGTAA 50 30 ATAACCTAAT CCGCTTGTTT TCTCCACACT AATCCGAGGG TGAATTCCTA 100 150 ATCTAGCTTT TCAGATCATG GGACGAGGGA AATGACCGCG TGCGCGAGGC 35 CCTAAGGAAT AACATAGAAA ACACCGCCTC TGCT 184 (2) INFORMATION FOR SEQ ID :972: 40 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 234 base pairs

(B) TYPE: nucleic acid

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(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :972:	
	GTGTTCTCTA AGGTGATACC TTTTAATTTT GAAAGACTAA ATAATTTTAA	50
10	TCGAGAATTT CCAGTCTTTC AGTCTGATCT ATTTAATTCA CTACTTGTTA	100
	CATAATCCAG TGAAAACTCT ACTTGTTGAA ATTATGACAT AAAGATCTTG	150
	CAGCTTTATT TGAGTATTTG TTCTTTTGTG TAGTTTCCAT CTTTTAAAAT	200
15	ATTTAAAATA TTTTCAAGGA TAAAAGTATT ATCT	234
	(2) INFORMATION FOR SEQ ID :973:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 197 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(b) Torozooti. Timear	
	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :973:	
30	TTTTCATCTA AAGGAGAGAG GCAGGCTCAG CTCCTGAAGG TCGCAGAGCC	50
	TCAGTAGTCC TCCTGAGTGC GTCTAACTAA CTACCATCAA AAAACAAACA	100
35	AAAAAAACAT CACAAAACTG AACTGCCGCC ATCACCACTA CACCAAGTAT	150
35	GTGATTGAAT TATTCAATGA TCTGTTTTCG CGGTAGTGAC CAACANC	197
	(2) INFORMATION FOR SEQ ID :974:	
40	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 244 base pairs	

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :974:	
	AGCAGGAGAT TTTTTTAATA ATAAACANCA ATGGAGAGGT GGAAATAGAG	50
10	ATGGAAAAAC AGGATCAAAG GAGCAACATA TCCAGTGACT TAAAAAAAATA	100
	ATCACACGTG GCAAGAAGTT TTCTAAAGTA AACTGTATGT GGGGAGAAGC	150
15	ATACAGAAAA AAACGAAATA CATACACCCC CAGGTTTGAA AGAAAATAAT	200
13	TTTGAGTTGT ATCAATCTAT CGATATCAAA GAATGAATGA CCGC	244
	(2) INFORMATION FOR SEQ ID :975:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 330 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :975:	

30	TTTTTTTTC	TGAACACTTT	GCTTCACACC	TTCTCATATT	CACGGTTATG	50
	AATTCTCCTG	ACTATATCTA	TTGTAACCCA	AAACAGCAGA	CTGTATTTAG	100
25	AGACCCATTA	GAGATTTCAT	GTCTATATGC	CCAGAGCCTG	ATATAATGCC	150
35	ACCTTACTAT	ACACATAATA	TAGAATCTGA	GGACTACGTT	AACTGATACA	200
	TGTTAAGTAT	CCTGCAGAGA	GCTGGCACAT	TGAATGTGCT	CAATAATCGT	250
40	TAGCTTTAAG	TATCTACCTC	AAAGGGCTAC	TGTGTGACTC	CAATGAGATA	300
	ATGTGCAATG	AAGGGTTTCG	TGTAATATTG			330

200

250

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	323	
	(2) INFORMATION FOR SEQ ID :976:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 200 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :976:	
	TGGTGAAAGG AATAAGCAAC TCAAGGTAAA TAAAGAAGAA AGATGAAGAT	5(
15	TCTTAGAATC GTAGAAAGAC TGCAGGGGGA AATAATTAAA GCAGCTTTAT	100
	TCCTTACGGC ATTCATCATT CGTCGAGCTG GAAAGCACTG ACAACTTTGT	150
20	AATGAGTTTT TTGCGCTTAA CTCTGTCAGG TGATTTATAT GAATNACTTA	200
	(2) INFORMATION FOR SEQ ID :977:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 296 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :977:	
	AAAGGACAAT TTAATATAAA TCTATGTTTG TGCATTTCTG ACAGGCCATT	50
35	ATTATCTGCT TTGACAAAGC CTTTCTGAAA CGCAGTGTAC AATGAATCTT	100
	AATGATGTTA TGAAACGAGC TTTGCT J GCTCTTGATT GGAGCTTCCG	150

GTATGTGATG ACGGTATGTG ATGTATGCAT GGATGTAG. 3 AACTGTGTTT

AATACTCTGA ATTTTAATTA GAAAAAAATA CAATAGCAGC AAGGCCCTGG





	TTTCTAAGCT GCATACTTTT ACTAACGCGG GACATGAGCA AATGCC	296
	(2) INFORMATION FOR SEQ ID :978:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 228 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :978:	
15	GAATCNCGCC TGACACATAG AATGCATAAA CGAGGGGGGT CCTTCTGCAG	50
	ATACTCTAAT CACTACACAG CTTTCTCTAT AAAACTACCC ATAAGCCTTT	100
20	AACCTTTAGA GAAAAATGAA AAAGGTTAAT GCTTGGAAGC CGGGGGAGGA	150
	CTGACCACTT CATAAGCCAG TACGTCTGAG CTGAGTATGC CCCCAGAATC	200
	CAGCCACTAC TGATAATTCA CAACGGTA	228
25	(2) INFORMATION FOR SEQ ID :979:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 171 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :979:	
	CGTACAAAAG CGCTTTGGAG ATGCCAGAAA AAACCCTACG GGAGGGTTAT	50
40	CCCCTGACG CTAGGCCATG ACACAACTAA ACTTCAATAC ACCAGGACTA	100
40	AGGCAAGTAT GAAGAAGCAA AATATCGTAA CGACGCACCC TCGAGATCTA	150

	CCAGGCAAAA CCAGAACCTG A	171
	(2) INFORMATION FOR SEQ ID :980:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 241 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	<i>,</i>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :980:	
15	TGATTCCCCA TTTCCCTGGA CAGGGCAGAG TCAAGCCGAG AAGGAGGAGC	50
	CACAGGCCAG CTGTTAATGA GACACTAAAT AAAACGTTCA GTATTCATAC	100
20	CTGTGGAACA TGGGTGAACC TTTCTGGTAA CTCGATTTTT CACACCAATG	150
	ACAGCAAATG AGAAAGTGAG AGAAGCTAGA TAAATGTTTT TAAAGCATTA	200
	CTGCAGTGGA AAATAACTGC ACTCTCAGGA CACAGCACTG T	241
25	(2) INFORMATION FOR SEQ ID :981:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 227 base pairs	
30	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :981:	
*	TCACTGCAAT CACGGTAGCT TCGCCCATTG CCTCTTCAAC CAGGCACATA	50
40	CATCGAGAAG TTGAACCTGC ACTTTATTTC ACACTGAACA GACTTACCCC	100
	GACAACAACA CCTCCCCAGT GGGACAAACC TACCCCCACCT CCCCACACTC	150

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	TACTCCCAGC TAACGTTCCC TATAATCATC ATGACCCATT AAACATTTGC	200
	AAAACCACAC TTCAACCCAC AGGAAGA	227
5	(2) INFORMATION FOR SEQ ID :982:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 205 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :982:	
	CGTTGTCGCC ATGGTAATAC CGCTCAGTAC GGGAGGACCC ACAGGCTAAG	50
	ACACTCGGAG CACGAGCTCG CCTGAGGGAC CAACGAGGCG AAGCCACAAT	100
20	CCGCGAACTC ATGACTGACC CCTTCTAAGT AAGAATCCCA CCCAGGCAAA	150
	CCAATCCGAC AACCGAAATA GCGCAGGCAC CGCCAAATTC AAGGCGCCCC	200
25	AAAAG	205
	(2) INFORMATION FOR SEQ ID :983:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 204 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :983:	
40	AGCAACCGGC ACTCAAGTGG AATCCCGAAA AAGTGATTTA AAAATGATCT	50
40	TACCTGTACC AGAAAAGCAA AATTAAAGGA AACAAAATAA GAACCATAGT	100

	CCCAAATGAC ATTTAACCGT ACATACAGCG ATAACATGTT CAAAATCCAA	150
	CAAATAACGC AACTTCCAGA CGTAAATATC CGCCACTCGA TTCCCTCCCC	200
5	CCCT	204
	(2) INFORMATION FOR SEQ ID :984:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 168 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :984:	
20	ATTTGTATTA GAAAAGTAAA GTTGAAGGAA ATAAAATTTG CATTCTTGTT	50
	TTAAGTGATC TTTAATTGTA TATATCGCGG TAGTATGTTC AAAATCCACT	100
	AAGTACTGTG ACTTTTAGCT GCAAATCTTT GCTCTTTGCT TTTTTTTTTC	150
25	TTTCTCCCCC CTCCCCAG	168
	(2) INFORMATION FOR SEQ ID :985:	
٠	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 350 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :98	
	(We)	
40	CTCAGCTGGA ATGTCCGGTG CCTGCTAGGT GCATGGCCA. AGAAGCATGG	50
	GCTGGGCCTG GGCACAGGAG GAGCAGCTGC TTTGGTCGGG GTGGAGACTT	100

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•	TTTTTTTTT TCTACCCACA GCCTATTCCA CTCCTCCCCA TCTCCAGGCG	150
	CTGGGAGGG GGCCCTCACC CCGTCACGCC TCGCTCCTC CTGGCCCTCT	200
5	GGTCCAGCCC CTTACGCCTC CTCTCAGTCT ACTCAATTGT GACTGTCCCT	250
	CCTGATGTAT TTTTTTTCC TCCAACTCAA AAGGCAAAAA TAATCCTATT	300
	TTTATTATCT TGCTACAACT GCAACTTTCT GCCCTATAAA TTTACATTCC	350
10	(2) INFORMATION FOR SEQ ID :986:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 289 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :986:	
	AGCGACCGCC ACTCACTGTG AGTTCCACTT AATTCAGGTG AGCCGCTCTT	50
25	CTGCACCTCC TCCTCACACC TCTCTACCTA TACTAACCAT TTTTGAAGGT	100
	TCAACAATGC TCTGCAAATC TTTTTAAGAC CCGTTACTTC AACAACTCCC	150
	ANTACCTTCC TCCTCANCGG ANCANCTTAN CCGTTACCTT TTANACCCGN	200
30	CGAGCTACAA AGCAAGAGAT ACTTCGCGAG CCAAATTCTA CAAAGGACCA	250
	AAAAAGAAAC CCATTACCTT ATAGTACTCA TGCAAAAAA	289
35	(2) INFORMATION FOR SEQ ID :987:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 134 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
40	(C) SIRANDEDNESS: GOUDIE (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :987:	
_	CACAATCATA GCATTTATTA CACGATTTAC ATCTGATCCT CACGCAATTT	50
5	TCTTCCTCAC CAATAAAGAA CTAATAGGAC AGCATATTAG AAGCAACATA	100
	CATTCTTTTA TTCTTGCATC GCTATAAAGA AGTA	134
10	(2) INFORMATION FOR SEQ ID :988:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 287 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :988:	
	TTCTGAAATG AAGGTTTCGT CTTTAGCTAT TGACTGTAGG ATTTGTAATT	50
25	CAAATCATCA CAGCATCCTA AAGAAATACT GTGTGAATGG AATGCACACA	100
25	ATTCCTACAG AACACAAAA CTGATGTCCA AAAGGCACAG AGTAATGCTG	150
	GTGGCTCTTT CTAGTCAGTT AAGAAACAAT AAAAAGTCTG CATTATTCTT	200
30	TCATAATTTA AATACTTAAG TAATCTCCAC TTTATTATTT TATAACAATG	250
	ACTTCAAATT TACATTATTT TAAGTACCAT TGTAATC	287
35	(2) INFORMATION FOR SEQ ID :989:	
33	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 177 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :989:	
	AGCAACCAAC ACTCACTGGA ATCCCGCAAT CAAGAGCTAA AAGGACTTCT	50
5	TCCATCTCTC AGGGACACAC ATCCACCGAT AAGAATAAAA GAAATGCCTG	100
	AATGACTCTC ACTGGCACTT TTAAACACAG CAAGCCCAAC ATATTTTCTC	150
•	CTTTTCATAA AGAAGCCTAT ACACCAT	177
10	(2) INFORMATION FOR SEQ ID :990:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 158 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :990:	
	TTCCTATACT ATGTCGGTTA AAAGCCTTCA TAGAATATAG GCACCAAAAA	50
25	TAAACTAACC CCACACCCTC ACCAACCAAA GGAGGCACAA TCCAACGAAA	100
	CTGATGAAAA GTCGAGGTAA CGACTCTGCA GACCGTACTC ATTTCTAAAC	150
30	CAAAAGTC	158
30	(2) INFORMATION FOR SEQ ID :991:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 267 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID :991:

	TAATCCCTTT TAAGCAGAGA TACACTTCA CAGAGAGAGA ATGTTTTAAA	50
	AAGACCCACA AGGGGAAGGG ACCAAGTAAG CACTTTTAAT TCATTTTGAT	100
5	TACACAAAA TAAGGCAAAC TAAATGATTC AGAACAATTC AATTTAACTG	150
	AAGCCTTCTA GAAAAATACT CAACAGGCTT CAACAAAAAG ACTTAGCGCA	200
10	CATAAAACAA TCACGAAGAT CACAATTTCA GCACAAATAT CTGAAGGAAT	250
10	ACACGCAAAA CATCATA	267
	(2) INFORMATION FOR SEQ ID :992:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 199 base pairs(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :992:	
25	AGGATGTGTT CATGCTGGCT TTCAGGATGT CCCAAGGCAC GGCACAGTGA	50
	TTGTCAAATT CCACTTTGCA TGGAAGACAG CACAGAACCC TGCTCTGCGT	100
30	CAGCTGGAGA GCTCCGGCCA GCACGGCCAC CAGCAGCATG ATCAGTGTGA	150
	TGCAATACCA GAAGCCGTCC CACCATGATT TTAAGATGTG ATAAGATGA	199
	(2) INFORMATION FOR SEQ ID :993:	
35	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 198 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
40		

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(xi)	SEOUENCE	DESCRIPTION:	SEQ	10	:993:

TTTAAGGTGC TAAACTTGCA CCTCATGTCC ACTCAGTAAC AAGTATTGGG 50 ACGTAGAGCA CAGCCTCACT CAGCTCTGAA AGGTAATACA GCTTGCGAGG 100 5 AAGTGAGCCA GCAGTGGCCT TTGCAATTGT GGATCTTGAG CTTTGCTCTT 150 AGCAGATOTO AGGOGTAACO ATTOGOTAAC TGTACTGAAG ATGCGTCC 198 10 (2) INFORMATION FOR SEQ ID :994: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 183 base pairs 15 (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 20 (xi) SEQUENCE DESCRIPTION: SEQ ID :994: GCTATCTGCG GGGCCATTCG TAGGATGGGT GAGTCAGATG ATTCCATTCT 50 25 CCGATTGACC AAGGCCGATG GCATCGTCTC AAAGAACTTT TGACTGGAGA 100 GAATAACAGA CGTGGAATAT TTGTCATAAA TAAATAACGA AAACCTAAAA 150 183 AAAAAAAAA ACAACAAACC CCAACAAACT CAA 30 (2) INFORMATION FOR SEQ ID :995: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 199 base pairs 35 (B) TYPE: nucleic acid (C) STRANDEDNESS: double

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :995:

(D) TOPOLOGY: linear

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	ACCTCTGCAT TAACACTCCA GCACCTTTGG TTAGCCAATT TGGCCTTATT	50
	TGTGTCTCCA CCATTGGATT ATCTGTCCAT CAAGGTCAGG AATGTTTTCG	100
5	GGTTACCCCA CTGTCCCCAA CTTCGAATAT GCTCACTGCC TGGAAAATGT	150
	TTATCTGAAT ATAAGGCATC AAGCCAGAAC TTGCCCAAAA CTAAATCTA	199
10	(2) INFORMATION FOR SEQ ID :996:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 177 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :996:	
20		
	GGTCTTGGCT GGTGGTTTAT GGCCCGGGCC TTCTTTCTAC GGGGGCCAGG	50
	GTCCAATTTT CCACCTGGGG TTTAAAAGTT AAGGAGGACC AGCCTGGGAA	100
25	CCCCTCGAGT GGGGACGCCA TTTCTATTAC CAGGGCCCCC TTATATTTTA	150
	AGGGGACACC ATATGGAGAT TTTATGC	177
		1//
30	(2) INFORMATION FOR SEQ ID :997:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 229 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :997:	
40	· · · · · · · · · · · · · · · · · · ·	

GAGTTTCCTG TGCTGTTACA AATGTAACAT TCTCATATAC AACATTCATT

	GAAGAGGCAC AATTCTTATT TTGAGGTGGC ACAGATTAGA CAAATTTTTC	100
	AGTGAATAAT TCCTCTTTCA TTAGGAAATT TAACCACAAG CTGTATTTTC	150
5	GTAGAAAGTT GCTTGAAATT CTTTTCCTAA AAAAATTTAA TTTTTCTATC	200
	TCAAAATGAC CGTATGCAAA CGAACATTA	229
	(2) INFORMATION FOR SEQ ID :998:	
10		
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 233 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(C) SIRANDEDNESS: double (D) TOPOLOGY: linear	
	(2) 20102001	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :998:	
20	TTGCAGTGTT TATGCCCGCC TTCTTTCACG GGCAGGTTCA ATTTCACTGG	50
	TTTAAAAGTA AGAGACAGGC TGAACCCTTC GTGGAGCCAT TTCATTACAG	100
25	GTCCCTTAAT TTAAGGAACA AGTTGATTTA TGCTACCTTT TTGCACGGTT	150
	TAGGGTACCG CGGCCGTTAA ACATGTGTTC ACTGGGCCAG GCGGTGCCTC	200
30	TTAATATCCG GGGATGTCCA GAAGGGGAGT TTT	233
	(2) INFORMATION FOR SEQ ID :999:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 216 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :999:

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	TCAAAAACTC AATATAATAT GTAAATCAGG GGTGTCCAAT CTTTTGGCTT	50
	CCCTAGGCCA TACTGGTGTT AGGCCACATT CAAAGCTATC CTAGGCCACA	100
5	TGTGGCTGGT GGGCCATGGG TTGGACAAGC TTGATGTAAA TAAAACCACC	150
	AGTGGAAAGA GTTTGTTGTG AGTTACATTC AAATACAACA GGAGTAATAC	200
10	TATCATGATA TTAGTT	216
10	(2) INFORMATION FOR SEQ ID :1000:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 280 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :1000:	
	GACAAGACCT AGAAGCAACA ATGCCCAGTA GAAACAAACA CACCTACTGC	50
25	CTGGATCTTA GTTTTTAATT ATATTCCCCA ATAAAGAGAC CCAGGGCTCC	100
	TTGTTGAAAT GGCTGATTCT AGGACTGGGG CAGGAAATAT GCAAGATGAA	150
30	CCTAGAATAT CTAATACTGC CAAAAATTAA GAAAGTGTTC TAAAAAAAAT	200
	CCCCACGGAT AGGGTGTCAA AAGAGACATA GAAGCCATCT GAAGGAGTTC	250
	CCAATGGCCA AAGATCAAAT AATTTTTCAA	280
35	(2) INFORMATION FOR SEQ ID :1001:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 324 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :1001:	
	(XI) Sheener bhockitiisha bhe is acada	
5	TGCATGATAG GAGCGTCCTT TGTTCTCATG AGGTGACTCT TGGTGGGCTC	50
3	CTTATTTGGG GACTGGTCAC CAAAAATACC TAACTATGGT TGGAAGCTTA	100
	GTGCTTTCAG CCCCATTCCC CATCCTCTGG AAAGGGGAGC AGAGCTGGAG	150
10	CTCGATCATG CCTGCGTGAC AAAGCCTCCA GAAAAATCCT TGAAAGACAG	200
	GACATGGAGA GGCTGCTGGG TTGGCGAACA CAGCCATGTG CCGGGAGGAT	250
	GGTGCACCCC AACTCCACAA GGACCCTTCC AGACCTCACC TGTGTATCTC	300
15	TTCATCTGGC TGTTCATTTG TATC	324
	(2) INFORMATION FOR SEQ ID :1002:	
20	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 254 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(5) 20102011 22.1022	
23		
		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1002:	
30	ATTTCCATTC ATAAGTCCTC ACAAACCCAC TTTTCCTCTT GCCTGAGTGC	50
	CTCACATACC CTACTGCCTG AGATGGTTCC AGAGGCGGTC TCCTCTCCC	100
35	CCCAACGAAA CACCAGGCAC ACACCTGCCC CCAGTCTTGC CTGCACTCTC	150
	CTTTCCTCCC GCAGAGAGGC ATTCCTTTCT CCTCCTCTCA TCCTACACAC	200
	ACTATAAGAG ACAACTGAAA TCTTGCCTCC TCCAGCAAGC TTCTTAATTC	250
40	ATTT	254

(2) INFORMATION FOR SEQ ID :1003:

	(i) SFQUENCE CHARACTERISTICS:	
•	(A) LENGTH: 265 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1003:	
10	AAGGTTGCGC TGCCCATCCT CTCGCCCTTC GGAATTTACC CCTGGCCGCT	5.0
	ourrouse reconnect credecure dealine condeced	50
	CAGGGTCTCG CTTCTAGAAG AAGATGATGG ATACTAGGGC GATCCTCCTA	100
15	TTGCCTTTAT ATTTAACAGG CCCGCCGAGG AGGGGCTCCC GCTGGTGCCC	150
	ACATAACTCT ATTAGACCAT CTGAGGCGAC TTCCCCCACC CCCTCCAACG	200
20	CGCCTCACGC ACGACTCTAG CAAAAGACAG GTTCCGCGGT GGTCACGTCG	250
20	TTTGAGACTA TACTG	0.5
	TITOMORETA TRETO	265
	(2) INFORMATION FOR SEQ ID :1004:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 263 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1004:	
	, , , , , , , , , , , , , , , , , , , ,	
35	AAATATGCCC TGAGGATTAT CTGATGTCGA TGGTGTGGAA AAGAACTCCA	50
	GCAGGCGACT TOGRATCAA TCAATGTCCC CTGAATGCCA CAGAACCACT	100
40	AGCAGACGCT GCTCTCAG TCTTAATGGA GTGGCCTTCT GGGAACAGCC	150
40	CACCOMMONA ACAMONA CANADA CANA	
	GAGCTTTGAA AGATGCATAT CAAATGAGTA CAGACACTTG TAGCATTTAA	200

	TCAAAGAGCA CCTTGCTAAG AGGCAGCGAA TGCTGGCAGG TGATGGAATG	250
	CCCCAGGTGA CCA	263
5	(2) INFORMATION FOR SEQ ID :1005:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 317 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1005:	
	CGAGACTGCA GTACTTCTAG AAAGTTGTGA ACTTCTAAGA AAGAGCCAGG	50
	CTTCCATCTC ACTATTCCTT GATCATTATC TCTGAAGTCC CTACCTGCAC	100
20	TTCCCTGATT GTCCTGTAGC AACACCAGCA TGGTGGGAAT TGCAGGCAAA	150
	GATTGTGAAA AATCCCTAAA GGGTCATTGC TCATGACGTT ATTTCGAATT	200
25	GTAAAATCGT GAGCCACTCA TATTCAAACT AAAAAAAGAA CAGAACTTTT	250
	ATTCACGTTG TGAAGCTTAC TCCCTCGCCA TTTTACGGAT CAATGTCAAA	300
	CGCTTGCATT CATAAAG	317
30	(2) INFORMATION FOR SEQ ID :1006:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 287 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :1006:

510

	CGGAAGCATT ATCCTGTCAT CAGAAGATGG ACCTTTCCCT GGAATGCCTT	50
	TTCCCTATCA TGTCTGTGTG GTAAATACCT ATTCATCCTT AACAACCTAG	100
5	CTGAGGTCTT ACCTCATCAG GATTTGATCC CCCAAAAAGA TTTGTCCCTC	150
	TCTGAGCTAT CTTTATAACT AGTACATACT CCTACCAGCG GACTATGTTA	200
10	TAATAATGTG GCTATATGCC TGTGATCTCA GCGTGAGCTC TTTGAGGACA	250
10	GAGTCTTTGT CTAAATACTC AAAACCCTGT TTACCAT	287
	(2) INFORMATION FOR SEQ ID :1007:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 273 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1007:	
25	GGGCACCAAA ATACACATCA GAGGAGACTG GCTTCCATGA GACGCTTCGA	50
	CTGTCTCATC GGGGCACTTG TAATAAGCAT CTTGATGCCA CTGAATGCAA	100
30	TGCTGTATTC AAATAATAGC TTTCATCTTC ACTATAAAAC AATACAAACG	150
	TARACTTTGA AGCCCTTTGA AGGACCTAAC CAAACAACAC AAGGATGAAA	200
	ATAGATCAGT ACAACTTTGA GACACATTAT TAGGTCAAAT CTGCAAAGCA	250
35	TATTCGGATT TTACCGTAAG GAA	273
	(2) INFORMATION FOR SEQ ID :1008:	
40	(i) SEQUENCE CHARACTERISTICS:	

(B) TYPE: nucleic acid(C) STRANDEDNESS: double



(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :1008:	
	TAGAGTGGGG GGCCAAAACC TCTGCAGTCC CCGGCAGTGA GCTATGGACT	50
10	TTCTTCCCCC TCACAAGGCT GGGGGCCTCC TGCTCTCGTC CCTGGCCCTC	100
10	CCTGCACAGG GCAAAGCCAG TCTGGGCTAT GGCACACAGA GTTCATGTTT	150
	. GCGCCCTCTC CCTGCCCCTC ACCCCAGAGG GTGAGGAGGA ATGAGGGGCA	200
15	TTGATGGTTA GGCCGGTTGT TGCCTCGAAC AGCTGGAGGG AAGCTGCAGG	250
	GGTGATAAAA TCAAAGCGAT ATTGACACAC TACAAACATT ATAGAACCTG	300
20	CAAAAAA	308
20	(2) INFORMATION FOR SEQ ID :1009:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 187 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1009:	
	GAACCGCCTC TGTTTCCAGA GCAACTGGTC AAAACCTCTC CAAATACCGA	50
35	GCAGTTTTGA AAACTGGATT AGGAACCACT AATGAAAAAG AACAGACTCA	100
	GGGACAAGTG TTTGGCGGGA ATGTGTGAAG AGGTAACTAA TGAGTGTCAC	150
40	TGAATCACAC TATTACACAG ATGAAACAAA GCCTTTA	187
40	(2) INFORMATION FOR SEQ ID :1010:	

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 175 base pairs	
	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1010:	
	AAGAAAAGA TATTAAGATG GGCAAGTCCT GGTGGCAAGA CAAGCAGATG	5
	ACATTACAGA CAATGGACAT CAAACTGCTG CCAAGCTAAT TTAGATTGTA	10
15	AAAACAGCTC CATAGTCAAT ACCCATGAGT GATCTTAAAT ACGCACAATT	15
	AAGCTACTTC TCCTTGATAT TACCT	17
20	(2) INFORMATION FOR SEQ ID :1011:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 208 base pairs	
	(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1011:	
	TGAAAAATAT TTGGAACTCT TTAGTACAGA ACAGTTTCAA TATGAGTTAA	50
	GAATCATGCG ATGACTACCA AAAAGCTAAT GCGATCCCAG GCTGCGGTAA	100
35	CAGAAGCAGA GCAGCTCAGC TGGGGAACGT GATAGTGATA ACTACTTCGT	150
	ACTAGGTTAG ACTGTACCGA GAGACCTATG TTCAGTTCTG GGAGTGAAAG	200
40	TATTTAT	208
	(2) INFORMATION FOR SEQ ID :1012:	

513
(i) SEQUENCE CHARACTERISTICS:

(B) TYPE: nucleic acid

(A) LENGTH: 184 base pairs

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	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1012:	
10	ATGATATCTA GACTACCAGT ATTTTTTGAA TGAGGCTTTC TTAGGAGTAT	50
	GTTGATGCAC TCTCATCCTT TCCTCCCCGG ACTCCTACCA CAACCCTCTG	100
15	ACTGTGGAAT AGCATGGTTG TGTGTAAGGC TGGAGCACAG GCACAGTGAG	150
	ATGAGGATGA GGGATTGAGG GATGCTATAA GCCA	184
20	(2) INFORMATION FOR SEQ ID :1013:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 263 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :1013:	
30	CTTTGACATT TGATCAGACC AAACAGTGCT GTTTCCCGGG GAGGAAACAC	50
	ATTTTAATAA ACACATCATC CCGCAGGCTC CCACCTTTAC CTCATGTTTC	100
35	ATACCTTGTT TATCAAATGA GCGACTCAAA ATGATTAAAA ATAATGCTGT	150
	TCTTTAGTAG CAACTAAAAT GTGTCTTACC GTCATTTATA TCTTTGTCAC	200
40	CGGAAAGAAG CATTTTTGAT ACTTTACTGC GAGTCAAAAA TCAATACGCA	250
	GAATGGCATT TGA	263

	(2) INFORMATION FOR SEQ ID :1014:	
. 5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 229 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1014:	
	CAAATTAAGT GCCAGAATGA TGCAGCCCGC TCTCACCAGG AAGAACGACA	50
15	TGTGAGAAAA CTTATAGCAG ATGCAAAAAT GTCAACCCAC CATGTTATTT	100
	AAAAAAAAT ATGACCAGGA TACAAGGACA CTTCACCGTT TTTAACCCAC	150
20	ACAAGGTCAG GTAATGTTTA CCTTGAAACA CAATCGCATA TGACCCTTTA	200
20	TGCCACTCAC CTAGGCCTTT AATAATGAG	229
	(2) INFORMATION FOR SEQ ID :1015:	
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 246 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1015:	
35	GAAAATAATG ATTCATATTA CCGGGTATTT CTTATCCAGT CTTTCATTCT	50
	ATGTAAATTG TGTGTGTCT TATATATGCG TGCATGTCTC TCTCTACATG	100
40	TATATGTGCA TATGTATGTA TATATATGCA TATGCACATA CATGCCACAC	150
70	ATGCACATAT ACACACTC ATAGAGAACA AAATTATTCC GAATATTTCA	200

	TGAGGTTTCT TATTATAAGG AGACAATATT GATGCAATCT AATTAA	246
	(2) INFORMATION FOR SEQ ID :1016:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 287 base pairs	
	(B) TYPE: nucleic acid	. •
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1016:	
15	TTCATAATCG CTGGCACTGA ACAAAGTTGC AGAATTCTTT GCCAGGTACT	50
	TTAGGAAATC GTGAAGATAA TTGAGTAATA AAGCAAGGCT CTTCTCATCC	100
20	AGAGGTGTAT AAGCCAACAT CGCTCCAATT CGTACAAATA ATCTCAGGAG	150
20	ATGTGGCGCT CCATACACCT GGGACATGGG TGCATCGGGA TGATCTGCAA	200
	GAATTTCAGC ATACTGTGGT CTCTCAAATT TATAGAGTAG CTGGGTACCC	250
25	AACATTACGT TGAAGTATTC TTTTATACTC GCCACAA	287
	(2) INFORMATION FOR SEQ ID :1017:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 299 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1017:	
40	ATATGAGAAA GCAGAGCAAA ACAGATGATG CTCTAAATGC AACTGACACA	50
40	CTTGCTAAAG ACGTTAGGTG CTCCATAAAT GCTTGTTGAA ATGCTGTTTG	100

•	TCAACATTTG TTGTGAAAAA TTCATCTCTC CATCTAAGAA TCCTCATGAG	150
	TTAACCACAA TCAGTTCTAC ATAATTTAAC AGAAAACATC TGGTGGCACT	200
5	TTTAAATGTT TAAGGACAGC ATTTCACAAA CTAAGCCCGC CCCCAGTCCC	250
	ACTGCAGCAG GAGAAAATAA GGCTATGGAG AAAAGCAAGA TGAGTTATA	299
10	(2) INFORMATION FOR SEQ ID :1018:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 274 base pairs (B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :1018:	
20	ATTACTCCTT CTCTCGAATG CTTCCAGAAG AGTAGCACTC ACCACCTCAT	50
	GAGGAAAGGC ACTGCAACTT TGGTCAATGA TATCTGTTAG AAAGATCTTT	100
25	TCCTATATTT AGAAGAGTGA TTCTCATACC TGAGCATGTA TGAGAATCAG	150
	TGGGTTTGAG GTGGGCCCAA GAATTTCCCT TTTTAACAAG TTCCCAGAAG	200
30	ATGCTGATGT GGCAGCTTCT AGCACAGTGC TTGAAAATCC ATGAGTTTTC	250
	AAGAGGACAA TCTAAAGTGC TCCC	274
	(2) INFORMATION FOR SEQ ID :1019:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 232 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

517

	(xi) SEQUENCE DESCRIPTION: SEQ ID :1019:	
	TTTCTTTGTC CTTGACAAAT ATTTATGGAA TGCCGGAAAT TATGGAAAAA	50
5	CAATTCCAAT GTTACGAAGT CCAAAGAACT GGAATGAGAA AACTCCTCAC	100
	GGCACATTAT GCTGCATGGA ATGACAATCA TCCTCGGGGA ATTAGGGCAG	150
	CATCTTCTAC CACTTTAAA GGCTACCACG AGACGGGGTG GAAATGCCAA	200
10	AAATGGCACC TCATCTTTGA TCAAAGATTC AG	2 32
	(2) INFORMATION FOR SEQ ID :1020:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 133 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1020:	
25	AACAGTCCAT GCTGATCTTA GTAACTATGA TGAAGATGGT GCTTGGCCTG	- 50
	TTCTTCTTGA TGAATTTGTT GAGTGGCAAA AAGTCCGTCA GACATCATAG	100
30	CARGAACTAT GTGAAGAAAA TGCAAACCTT TAC	133
30	(2) INFORMATION FOR SEQ ID :1021:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 280 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		•
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID :1021:

518

•	TCCTAGAACT CTGCTTGGAC CAGAAGATGT GAATAAACTT AAGCTTATTT	9
	ATTTAAAATC ACAAATGAGT TGCTCTAGAT TCTAAAAGGG TGAAACTTTG	100
5	ACTGTTGAAA GTTTAAGTAT TAGTAAACTT GAGTTACTTT TTCTTTCAAA	150
	TTTCACTCCG CTTCCCTGCA TTTCGAAGCT GCTCTTTCTG GTCCTACCCA	200
	CCACCCCACC AACAAGACTT GTGTTTGTTA ATAGAAATAA TTTATCAAGG	250
10	TATTGGGGAT CCATTGTCTA TATTTAAAAC	280
	(2) INFORMATION FOR SEQ ID :1022:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 304 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1022:	
25	AAAATAAATA ACTTCTTAGA TTTTTGACTG AAAAGATCTG AGAATGTTCT	50
	GCCAAACAGC CGACCAACTG GTGCAAAAGG TTAAGGCTGA CTTGACTTAG	100
30	CAACCTGCAG CACAACCAAA AACACTGATG CAGTTCAGAG CTCTTCAAAT	150
30	GCATACTTCA GTGTTACACA CACATCAATT AAATTAGGTT AAATTAGTTA	200
	ATCCTCTAGA CAGTTTTCTT TTTGTTTTGC ATGCATCCCG TTCCATTTTC	250
35	ATTACGGGCA TCTATTCCTT GATCAATTAT GTGCTTTGCT TTTTAATCGG	300
	TTTT	304
	(2) INFORMATION FOR SEQ ID :1023:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 237 base pairs

519
(B) TYPE: nucleic acid

(C) STRANDEDNESS: double (D) TOPOLOGY: linear 5 (xi) SEQUENCE DESCRIPTION: SEQ ID :1023: TTTCTTTGTC CTTGACAAAT ATTTATGGAA TGCCGGAAAT TATGGAAAAA 50 10 CAATTCCAAT GTTACGAAGT CCAAAGAACT GGAATGAGAA AACTCCTCAC 100 GGCACATTAT GCTGCATGGA ATGACAATCA TCCTCGGGGA ATTAGGGCAG 150 200 CATCTTCTAC CACTTTTAAA GGCTACCACG AGACGGGGTG GAAATGCCAA 15 AAATGGCACC TCATCTCTGA TCAAAGATTC AGAGCAT 237 (2) INFORMATION FOR SEQ ID :1024: 20 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 320 base pairs (B) TYPE: nucleic acid · (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID :1024: 30 GGCATGATTA TTAGAAACTA TTTAAGCTTT TTTCTTTGAA AAACAAGCTC 50 CTTTTACAGA ATATAAACAA CAGTAGTGCC TGTGGTTTAG CCCACCAATC 100 TTGATGACTA AAAGTAGCTG ATGCATTGTG CATATGATGC TTGAGATGGT 150 35 TTTTGCAAAA GCAGAAATCG CTGCAAGGTA ATCACAATAG ATAAAAGTGG 200

TATTTTAAAC CTTTGAAATA AATGGATGTA ACTGTACCTT GGTACAGCTT

TTCACTTGTT TAGTTTTTAA ACGTTAGTAT AAGATTAGGT AATTGAGGGT

40

250

	TAGAGCCAAC AGGAATCTGC	320
	(2) INFORMATION FOR SEQ ID :1025:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 202 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1025:	
15	TTCTGGCACC ACATTCAATA CTGATTCACA GGGATCTAAA ACATTCTAGT	50
	TATTCAGTCA CTCTGTCCTG TGTGGCAGAT AGGACTTATG TATCTTCAGA	100
20	ATATTTGAGG AGTCATTCTC AGAGTCTCTC ATGAGTGCTC AACTTAACTG	150
	TTCCACAAGT CTGTCTTCAT AGCTGCATGT TGCATCTTCC AGTCTCTGTT	200
	CT	202
25	(2) INFORMATION FOR SEQ ID :1026:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 243 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1026:	
	ATTGGTAGAC AATATCATAA GAGTTTTCTG ATAAAAGATG CTTTTTAACC	50
	CTGACTCCCA GTCACAATTT TGGCATCTCA TCCATGGGAA AAAAATAGGA	100
40	AACTTATACA TTTCATAAAC TAAAGGTCAT CCAAACACTG CCAAAAACGT	150

	TTTTATAAAT TGAGACCTAC TTACATCACA TCGGTTTTCC AAAGAGAATA	200
	CACAGCGAAA GATGAGGCTC CACCCGGCCG GCACAGTCAT GAA	243
5	(2) INFORMATION FOR SEQ ID :1027:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 185 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1027:	
	TATTTGCATT GAGGAAATAT TAATTTTCCA ATGCACAGTT GCCACATTTA	50
20	GTCCTGACTG TAGGAAACAC TGATTTTGTA AAGTTGCCTT TATTTGCTGT	, 100
	TAACTGTTAA CTATGACAGA TATATTTAAG CCTTATAAAC CAATCTTAAA	150
	CATAATAAAT CACACATTCA GTTTTAAAAA AAAAA	185
25	(2) INFORMATION FOR SEQ ID :1028:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 312 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	A LA GROUPNOR PROGRESSION AND TRANSPORT	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1028:	
	GCTTCTCTAT TCCTCCTGCC CGGGAGGAGT AGAGGAATTC TGGAGCCACC	50
40	TTAGTGGGCA ATGGGGGAGC TCCTGATGGT TCAGGAGCAG GAAATTTATG	100
••	AGCAGAGTGG GGTCCCAGGC CACAGGGAGA TGTCTATCCA CAAGGGATGG	150

522

•	TGGCCAAGGG TTGAATGGAA AGAGGCAGGC AGGGGGAGAG GGGCAGAGGG	200
	TGTGGGTATT CCCAGGGCCT TGAGAGTGGA CATGGCCCCT TCTCCTCAGC	250
5	CTTCCATTAG CAAGGATGTC ACTGCTGCTC TTGCCTGATG ACAGCCAGAT	300
	CTGTTCACAG TT	312
10	(2) INFORMATION FOR SEQ ID :1029:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 218 base pairs (B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :1029:	
20	ATTATTTATA AATTTTAGTG AGCACCACCA AAGTTAGGAT TCAATTGAGT	50
	TTGAATTCAA ATTCATTCAA AAGTTGCACA AATTTATTTC TTTTTTCCTG	100
25	AACATTCCTT TACTTCAGAT TGACAATTCA TTCTATTTAG AGCGCTATTT	150
	TAAGAAACCT TGATGAATCG CCCTTGACTA AAGGAAACAA AGTAGAATTT	200
30	TATACAGATG GAAAAAGA	218
	(2) INFORMATION FOR SEQ ID :1030:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 124 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID :1030:

	TTATTAGGGG GTTTAGAAAA TAAATTCGTA GGGTTTAAAC ATTGAATAAA	50
	ACTACAAAAA AAGACACACA TTCAGGTAGC GAGGCTCTGG GGGTAACTCT	100
5	TTCTTAGTTC TTTGGACACA TCCG	124
	(2) INFORMATION FOR SEQ ID :1031:	
10	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 237 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1031:	
	TTTTGCCAAG TATATGTAGT GCAAATATTT TCTTTCAGTC TGTAGCTTGC	50
20	CTTTTTATTT NTTAATGGGT ATCTTTAAAA AAATGGAAGT TTTAAGTTTG	100
	AATGGAATTC AGTTTGTTTT TAAAGCTTGT GCTTTTTGTG TTCAACTAAG	150
25	GGATATTAGC TTACCATTTT TCTCGGTTGA ATATTATGTG TTTATAGACA	200
	AGAAATGGTC ACTAAAGCAA AATAACTGAA AATTATC	-237
20	(2) INFORMATION FOR SEQ ID :1032:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 147 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1032:	
40	ACAGCAACCG GCACTCACTT GGAATCCCAG TGTTCCGAGT TCTAAGGCCA	50

	CTGAAAACCA TCAAGCGCTT GCCAAGCTCA AGGCCATCTT CGACTGCGCA	100
	GCGACTTCCT TGAAGACTGT TTTTAACATA CCAAAGGAGG ACAAGCT	147
5	(2) INFORMATION FOR SEQ ID :1033:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 238 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double.	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1033:	
	AGGCCTGCCT ACCGTAGGTC TCTCAGAGCC TTTACTCTAG TCACTCTTTA	50
20	GAGGGGGCA CTAGAAGCAA TATCTCCGAA ACTTCTTCGA CTGTCGAGAC	100
20	TTTTTACTCA TAATTCGCTT CAAGCCAACT ACGGAGGCGC ATTTACAAAA	150
	CTGAAATACG AGCGACACCC CAGGAACGCA CGGAGACATG ACGCCCTTAA	200
25	TCCTCTGTCC CTACTCCCTC TCCTAGGACA CCGCATTA	238
	(2) INFORMATION FOR SEQ ID :1034:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 63 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1034:	
40	TCCATGNCTC NTGGTCTCTG TGCNCTTGNC AGGGGCATGC CAGGGCCCTT	50
-	GGACTGTGCA GGG	63

•	(2) INFORMATION FOR SEQ ID :1035:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 180 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1035:	
	CGACCGGCGC TCAATGGCGA AATTCCGAGC CAGAGCTATT GGTTGAATGA	50
15	GTAGCGCTGA TGGTTTAGAT AATAACTAGT ATGGGGATAA GGGTGAGCAG	100
	GCGCGCCTTG AGGCAAGAAG CGGGTTAGAG CATCTCTACT TTAAAAGCCA	150
•	AAGCCTATAA CGGTAGCGTC TACATCACGA	180
20	(2) INFORMATION FOR SEQ ID :1036:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 142 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1036:	
	CCAAATACGA TGACATCAAG GAGTCGATCC GTCAGCGTGA CTTGAATACA	5.0
35	CCACCGCCGA CGACCCGAAA GCCTGATGAG GAGAAGTCCA GAATCAGGAA	100
	CAACGGCGAC ACTCGACTAA CCATTTTAAA CCAATTGGAA CC	142
	(2) INFORMATION FOR SEQ ID :1037:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 95 base pairs	

526

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1037:	
	CCACATGGAG TGACCTGGGC CTCTGCAAGA AGCGCCCGAA GCCTGGAGGC	50
10		
	TGATTGTCAA AGCAGGGGGC AGGACCCGGG GGCAGGAGAA ACCAG	95
	(2) INFORMATION FOR SEQ ID :1038:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 195 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1038:	
	(XI) DEGOLACE DESCRIPTION. DEG ID .1038.	
25	ATTTTATTGT AGTAAGAATA ATACATAGAA ATAACATTAA ATAAATATGT	50
		30
	TTGACAAAAA CATACACACA TAGTACAGGT AGAACATATA ACTGGTTGAT	100
	GCTAAATAAC AGATCCAGAT AATTTTCAAT TTGAATTAGC AGCAGGGAGT	150
30		
	CATTGAATGC TATGCCCTTA GAATGGCTTG CAGGCTTTCA CGAGT	195
	(2) INFORMATION FOR SEQ ID :1039:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 218 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		

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(xi) SEQUENCE DESCRIPTION: SEQ ID :1039:	
GGTTGTCAAG AAAATGAAAG GTAAAGCTCA GAAGGGATAA GGGAAGACAT	50
TACAGAATTT ATCATCAAGC AGGAGGTTTT TTCCAGGTTC TAAGATGAGG	100
TTAAGTTTCT TAACAAAAGA ATAAACAACT GTGACTCTAT CTGTCGGGGG	150
AGGGTCTAGA CAGAAAAAT GAATATACCC CAAAAGGCTG AAAAAAAAAA	200
CGAGACTTTG ATGGAGAC	218
(2) INFORMATION FOR SEQ ID :1040:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 318 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID :1040:

25	TTTATTATTT	TGAATGATTT	AATGGTTTTC	TACACAATTT	ACATCACAAC	50
	ATGTAAATTT	TAGCAGTAAC	ATCTGATTCT	AACAGCACAT	CATGCTATTC	100
30	CTTTCATAGA	GCCTTCAGAG	ATTCAATGCT	AAACAAATTT	CCTTAGTTGG	150
30	CATCAAGGCA	CTGATCACTT	TAGAGGCTTT	TAAGAAATTA	TTTAAAGATG	200
	CAAATGCCTC	TGAGTGAAGT	GTACTATCCC	ATCACTGAAG	CCCACAGGAA	250
35	CAAGTCCTAC	AATTTTAAAA	AGGCTCGATG	GAAAAATTTC	TCAATCCTGA	300
	AATCCCCTAG	GGAAGGGG				318

(2) INFORMATION FOR SEQ ID :1041:

40

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 199 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1041:	
10	ACGTACCGAG CCGTCGTCGC GGTGCTTGAG CTTGAAGGCG AGATAGCCGA	50
10	TGCCGCCGAG GCGGTGGACC GCATCACGGT GGCGCTGACG AACGCGAGAT	100
	TCAGCAGCAG CGATGCCATC AATAGCAGCC TGATCGGACG CATGACCGAC	150
15	TCTCCCTGTG AGCGGAGGTT GGGGGGCCGA TCTCCCGCCG GTGCCGGGC	199
	(2) INFORMATION FOR SEQ ID :1042:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 300 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1042:	
30	GCCTCTAACA AAACTAGGCT GTCCCGGACC ATGGTAATAG AATTGTTTAC	50
	CTTTATACCA AGAAGGTTGG GAAAGCACCA AAATCTGCAT GTGGTGTGTG	100
	CCCAGGCAGA CTTCGAGGGG TTCGTGCTGT AAGACCTAAA GTTCTTATAG	150
35	ATTGTCCAAA ACAAAGAAAC ATGTCAGCAG GGCCTATGGT GGTTCCATGT	200
	GTGCTAAATG TGTTCGTGAC AGGATCAAGC GTGCTTTCCT TATCGAGGAG	250
40	CAGAAAATTC GTTGTGAAAG TGTTGAAGGC ACAAGGCACA ATGTCTGGAA	300
	(2) INFORMATION FOR SEQ ID :1043:	

529

(A) LENGTH: 170 base pairs

(i) SEQUENCE CHARACTERISTICS:

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
		·
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1043:	
10	GAGACCAGTC TCAAGTGGGA GGGGCTGATG GTGGGAAGCC CTAGAAGAGA	50
	GTCTGGGATG AAGCGGCCTC CTCCCTGTCT TGCCCTCCAA AATTGAGTCT	100
15	GGCCTGATTC CTTTGAGGAG CAAATTTTAC AATCATCCCT CACCCTAACA	150
	CACGGTGAAA CTGGAAAACC	170
20	(2) INFORMATION FOR SEQ ID :1044:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 260 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1044:	
30	GGCCCCCCT GGGGACTGCT GGTTTCCAGG GGCCACCCCC CCTCATCCAA	50
	AAGAAGAATC AAGTTTTGTT TTCCTGTGGT TCCCTTGCTC TCCCCGGCCT	100
35	CACCTCGAGC TTCCACTTGG GCCCTTTCCC ATGCTTCTAC TTGAGCCCCG	150
	CCTGCCTCAC CGTCTGCCTC ACCGCCACCT CCTGCTCAGA GTGAGTGCAT	200
	GCATGCCAGA CAGATACACA TATACATACA CACACACACA CACACCCTAT	250
40	<u> </u>	260

	(2) INFORMATION FOR SEQ ID :1045:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 164 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1045:	
	AAATCTATAA TTTTAAGGGC TTAACCTGTG ACTTTAATAA GCTGGAACAG	50
15	TCCACTGAAT GGGTATAATG AATTGCAGTA TATACGTATG ATCGCTTTTT	100
	AAGTGATTAT CTTTTCTTTC GTTAAGTCAT GTAAATTCAT AAATTTTTTG	150
	GCACTGATGT GTTG	164
20	(2) INFORMATION FOR SEQ ID :1046:	
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 130 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1046:	
	TCCCTCCTTT CCGAACTGGA GCCCCATCCT CTCCAGAGTA TCCAGGGCTT	50
35	CTTCACTCCC GGGTACCTGC CCTTCGGCCC CTTTTCACCA CAGCTGTGCT	100
	ACTGTCAACC AGTCTTTGCT GCATAGGCAT	130
40	(2) INFORMATION FOR SEQ ID :1047:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 285 base pairs	

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(B) TYPE: nucleic acid

(C) STRANDEDNESS: double (D) TOPOLOGY: linear 5 (xi) SEQUENCE DESCRIPTION: SEQ ID :1047: GCTTAACTGG AAATTGGAAG GGAAAAGAAG AAGAAACAAT GTAATGTAGC 50 10 AGTGGAAGCA AAATTCTCAC AATGAATAGC AGTCTTTCCA GCTTCTTTGA 100 150 CACGGATTTT CTCATTAGAA AAGACGACTC TCCTGAACTA GGGATGAGTG 200 TGAATCTCCA TTCGAGGAAG GGGAAGAAGA GCTCGGAGGG TGACAGCCTC 15 CCCCTGAGAG AGCCAGTTGC GTTCATGATT TTGATTCCTT CTTCCTCCTG 250 285 ATGAAGTATC TGCCCAGGAG CCCAGGAGCA GAATA 20 (2) INFORMATION FOR SEQ ID :1048: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 233 base pairs (B) TYPE: nucleic acid 25 (C) STRANDEDNESS: double (D) TOPOLOGY: linear 30 (xi) SEQUENCE DESCRIPTION: SEQ ID :1048: TAAAACTGAC CTAGAAGCTA TCAGCAACCA CAAAGAGACA GAAGAAAAGA 50 100 CTGCTTCTGA GGCTCTCTCA TGGAACCTAC TGATGATGGT AATACCACGC 35 CCAGAAATAA CGGAGTCGAT GATGATGGCA ATGATGACGG CGATGATGAC 150 GGCACTGATG ACCCCAGGCA CAGCGCGAGT GATGACTACT CAACACGAGC 200 40 CAGGTCTTTC TGAAGGCCGA GAGAGCTAAA TAA 233

	(2) INFORMATION FOR SEQ ID :1049:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 293 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1049:	·
	ACTITAATIT ATTICGGATG CCGGAATIGI GCCCAGAGII TCTCCTGAGC	50
15	TTGATTCCAT AGCTAGCAGC TTCAATCCTT CGCAGCTGCG GTGCGTTCTG	100
	AACTCTGAGC TGTCCTTTCC TGACAGGCAC TTTCCATAGC ATCTGCCTGC	150
20	TTAATTCCTC ACGACTCAGA AATGTTAACG GCACTGTCGA GTGCTGTGAT	200
20	CATTTTGCTT TAACTATGTA AAGCTTTATG CCCTTCGAGA AGCTTATTTC	250
	GAGATAGAGC TAGAGAAGAA AAGCAGCAAA ATTCGGTCGA TAC	293
25	(2) INFORMATION FOR SEQ ID :1050:	
30	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 219 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1050:	
	AAAACTATAC TTTCATTCAA AAGAAGAGCT GAATTGATGC TTGAGTTACA	50
40	GCACAAATCT ATTATTAGTG AATGAAGTAT ATTCTTGGCA GATAAATACC	100
	AGATCAAAAG TCCTGTTTCA GTAATTTGAT TAAACTGTAG AATACTAAAA	150

	AATAAGTTAT TTCTACAGAA ATCTTTGAAG GGAGCAAAAA ATCAAATCAC	200
	AGTATATACC TAATGGCTA	219
5	(2) INFORMATION FOR SEQ ID :1051:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 70 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1051:	
	AGCGACCGGC GCTCAAGTGG AATTCCGTGC AGTGTTTGAT TTTTCGTTTT	50
	TGCGATAGTT TACTGAGAAC	. 70
20	(2) INFORMATION FOR SEQ ID :1052:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 204 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1052:	
	ATTCCTGACC TGTGATATCG GCCATTAGAG CCTTTCAAGA ATGGTACCTC	50
35	CTGCCGATGA TTTTTTTAA AGCCTTAATG AAGAGAGTGT CCTCTGACTC	100
	CTTCCAGAGA AGATAGGATG TGAGTGAGTA AGTTATGTAT AATAATTTTA	150
	TCTCAAAATA ACCACGTCCT TGATACCATT CCCTGTATAC CAAGGAAGGG	200
40	TATT	204

	(2) INFORMATION FOR SEQ ID :1053:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 252 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1053:	
	ACTARACACA GCACTGAGAA TTCTCCTCTT TTTACARARA TGACAGACTT	50
15	AAGAGAGGC ATGGAACAGA TTAAGAGAAT TAACACGGAG AGGAGAGCAG	100
	AGGTATAAAA GGTATCCAAG AAAAGTAAAA CATACAAAGG CAATTCAAAT	150
20	CAAAGTGAGC ACTGCCTATA TACAGACAGA AAGCGAGTCC TCTATGAAAC	200
20	CATACCCGAC AGAAAGTACC GGAATACCAC CGACACTGAT GTCTTCCAAA	250
	CG	252
25	(2) INFORMATION FOR SEQ ID :1054:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 212 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :1054:	
	AAATCAGGAA ATTGTACATG TTAACAAAAT AGTATAACCA TGCATACATA	50
40	CATCTGCTTA TTAAACACTG AAGTAAAAGA ACTAATCCAG TTTGCAGTCT	100
40	TTAGAGGTGT TTAGTATTTC ACTCCGTTCT GATGGAAGCA CTTTGAATGC	150



	TTGCATGGAG ACATAAAACT GAATATTTAA TTGACAATAG ATCATGCGCC	200
	TGTATTTATA AA	212
5	(2) INFORMATION FOR SEQ ID :1055:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 152 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1055:	
	ATAAACTGTG CTAACTAAAG TTTTTATTTC ATCAATATAA AAGCTGTAAA	50
20	AAAACTGAGG AGAAAGCAGT TGCCAAAAAG ATGAAAGAAA AACAACATAG	100
20	AAAACCTTTA AAACAGGCAA AAGTCAGTTC ATAATAAAGT AACTCATCTC	150
	AC .	152
25	(2) INFORMATION FOR SEQ ID :1056:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 205 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1056:	
	AACAGATCCT CAGTTTCTCT GGAGACACCC CCAATTCTCG GGTGAGTGTT	50
40	GAAACCTGAC AACTGACTGT TAGCCTTGTC ATCATCCTCA TTGGAGATGG	100
	AGATGTTGTA GTCGGAGCCT CATTCCTTCC GGGGCACTGT TTCTTCTAAT	150

	GGCAACCATC AGAGCCTGTC TGGAAACAGC CTGCTGCCTT TGCTAGGGGG	200
	GCAAA	205
5	(2) INFORMATION FOR SEQ ID :1057:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 174 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1057:	
	GAGAGAAGAG CGCTTTTCTG GGCTCTTGGT TACTCCGTCA GAGACTTTGC	50
20	CCTTTGTCTG TTTAAATACA CTGGGAGCCA GAGCTGATTC CCCACCTGCT	100
20	GCTGTGGTTT TCCGCTTAAC ACAGGAGAGA TGAGTTGGTC TGGTATATTT	150
	GATAGCAGGT TTTAAAATGA ATCC	174
25	(2) INFORMATION FOR SEQ ID :1058:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 125 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1058:	
	TATTTGATGG TCCATAAGAC TTTGTCAAAT GTAAACCTAC AGTTTGATAA	50
40	GCTTTAAAAT ACCATGTTGA CAGCATTTTG AATTGTTTCA TAGACGTACT	100
70	TATTTAACTG ATGCGAACAT TCACA	125

200

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	(2) INFORMATION FOR SEQ ID :1059:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 205 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1059:	
	TTATCTTACA ATTCTACTTC CCAGCATCCT GAAATTTTCA AATACTGTCT	50
15	TAGTATATTA AACTCTTTTG AAATAGATAA CAAAAGCACC ATGGGAGTCC	100
	GTTGAAAACT TAGGTTTGTT CCTTCTAAAA TTTCTAAGTC CTTCATTATG	150
	ACTATARAGA RARRAGGTTC ATCARTTCAR ARRARATCC TGATTCTTCA	.200
20	AAATA	205
	(2) INFORMATION FOR SEQ ID :1060:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 249 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1060:	
35	ATCTCACAGA TTCTTTTTCA CAGATTCATT CATGTTGAGT GAAAGAAGCC	50
	AGATGCAAGA GTCCACACCA CATGATTCTG TTTCTATACA ACTTAATTTG	100
	AAAACTAAGC AATACTTACA GAAGTGAGAA TAGTAGTTGT CTCAGGGTAG	150

GTGAGTGTCA TGAAGGGAAT CTTATACGTT TGCTAAAAAT GTTTTATAAT

٠	ACTTGGATTT TGGGTCTA1 GCTGGCAGG GGAAGGGATA CATTGCAAA	249
	(2) INFORMATION FOR SEQ ID :1061:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 200 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
,	(xi) SEQUENCE DESCRIPTION: SEQ ID :1061:	
15	TAGCACATTG CATCCCAAGA GCTGTAGTCA AAATCCTCAA AATCTGATGA	50
	AAATGGCATA CTACACTAAG GAGGATTTTT TGGGCATTTT CCATTCATAT	100
20	GCAGAATCAG TGGTTGAAAA AGGAGAAAGA GAGATTTTCT TTACAAAAGC	150
20	TCCTGACCCC ATTAACATCT TATCTATAAA TCTGATATGT TCCTGACTCC	200
	(2) INFORMATION FOR SEQ ID :1062:	
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 200 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1062:	
35	GCGCACAGCT GAGAATCTCC GGTCTTGTCT CACTTTGGAC TGGGACAGTG	50
	GATGCCCATC TAAAAGTTAA GTGTCATTTC TTTTTAGATG TTTTACCTTT	100
40	ACAGCCATAG CTTGATTGCT CAGAGAAATA TGCAGAAGGC AGGATCAAAG	150
	ACACAGGA GTCCTTTCTT TTGAAATGGC CACGTGCCAT TGTCTTTCCT	200

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(2) INFORMATION FOR SEQ ID :1063:

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 246 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1063:	
	TATCAAATCA TGAGTTGAAA GATTTTGACT ATTGAAAACC AAATTCTAGA	50
15	ACTTACTATC AGTATTCTTA TTTTCAAAGG AAATAATTTT CTAAATATTT	100
	GATTTTCAGA ATCAGTTTTT TAATAGTAAA GTTAACATAC CATATAGATT	150
	TTTTTTTACT TTTATATTCT ACTCTGAAGT TATTTTATGC TTTTCTTATC	200
20	AAATTCAAAT CTCAAAATCA CAGCTCTGAA TCTTAGAGTA TCATAA	246
	(2) INFORMATION FOR SEQ ID :1064:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 170 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1064:	
35	CCCTCATGTG CCAGTTCGGT CTGCCTGCAG AGGCTGTGGA GGCCGCCAAC	5(
	AAGGGCGAGT GGGAAGCGTT TGCAAAGCCA TGCAGAACAA CGCGCAAGTT	100
	TGAGCAGAAA GAGGGCGACA CGAAGGACAA GAAGGACGAA GAGGAGGACA	150
40	TGGAGCCTGG ACTGAGCCAC	170

	(2) INFORMATION FO REQ ID :1065:	
. 5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 171 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1065:	
	CTCTCCCCCA CAGGTTCTCA GCAGTTACTA AGATGTCCCC TGATTTCATT	50
15	GACCTCTGTG TGTCTTCAGT CCTTGACCCT TTAAGGCTCC CTGGTGCCAG	100
	AATGTCTGCA GCTGTAGGAT CAAAGACCCT TGGGGGAAAA ATCCATTCTC	150
20	AAAAGAGAG AAGATGGGGT G	171
20	(2) INFORMATION FOR SEQ ID :1066:	
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 201 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1066:	
	GAGTCTATAT CCCTTACTCA GTGCAGTTCT CAAAGTCCTT TGTATGTCGT	50
35	ACAGGATCAC ATCTGTACAT ATCACACTCT TGTGGGGTAA GCCCAGAAGC	100
	TCATACACAG CTTCATGGGT TTACTTTCCC AAGCACTTCC TCCCTCCCTG	150
40	CAATATCTCC CCAGCACTTT CTGCTTCCTA TCAGCTTTCC CCTTTTTCAA	200
40	С	201

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	(2) INFORMATION FOR SEQ 1D :1067:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 151 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1067:	
	ATCAACCGGA GGTGAAATGA AATACCGTCA ACCTGTGCAT GAGTTTGTGT	50
15	GAACTGAATG TGTGTGCATA CACATAAGCA TGTGTGCGAG CGCAAATGTG	100
	GCGTCTCCAC AGCATGCGCA ATCCATGAGT CTGTTTCTAA CGCGCGCGCG	150
	c	151
20	(2) INFORMATION FOR SEQ ID :1068:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 273 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1068:	
	ACTGTGTCAT GTCAGGTTAG ATCTGAATCT CTAGGAGAAT AGCTTTTTTG	50
35	ATCTGTTTGC TCCTTTGAGT CTCCCTTTTA CTTTACAACT AGAAAACCAA	100
	TCGCATACTT CACTTCTATC GCTTCCAGAT ATGGCATATT TTTCTTAGGC	150
40	TACCGTTGAA ATTTAGCATA ATATTTCTCC CTTACCTTTA CGTCCTTTTA	200
40	AAAAAATAGG ACTATAGTAA GTCCTCCGTG TCGGTGGCAT GTTTTTGGAA	250

	ACTGACTTTA AAGAAAACAT ACA	273
	(2) INFORMATION FOR SEQ ID :1069:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 189 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	` <i>'</i>	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1069:	
15	CAATCTTGCT TATAAAATAA GAACACCTTT CAATTAAGTG AGTGGGTCAT	50
	TCCTGGTGCA ATTGTGATTT TTTTTTAGCC AAAATGAATG GCAAACTCTA	100
20	TTTAGAGCAA AGTAAGTATT AGAAAACCCT AGGAACTCTT AATCAACGTT	150
20	TATTACACTT TTATAAAGGC AAACTACGCG AAAGAGCCC	189
	(2) INFORMATION FOR SEQ ID :1070:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 280 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1070:	
	(XI) SEQUENCE DESCRIPTION: SEQ ID :10/0:	
35	TTTATTCCAC TGGAGAAAGG GGATTGAAAA TCAGTTAGAA CCAATGTATT	50
	TCTTGCCCCA CGGAACACTA TTCCTATAAG ACAGCTGAAA GAAGCTGCCG	100
••	TGAGGAGCTC AGCTCCAAAC ACAGGATCAG CACCTCGCAT AGGAATTCCC	150
40	ATCAATCACC ACTTCTCATC CCCTTTTATC ACACTCATA TA CCTCCTA	

	TTAAGGAAAA GTAAAACAGT CATTTACGAA AGAAAGTCAA TCTGTATCCT	250
	AAGCATTTTA ATAAAAAGTC AGAAGGAATT	280
5	(2) INFORMATION FOR SEQ ID :1071:	
	(i) SEQUENCE CHARACTERISTICS:	. •
	(A) LENGTH: 193 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1071:	
	AGAACCGAAG CCTGCAGAGA GGCCATTCTG ACAGGCTGGG AAATGTAGCC	5 0
20	TACCGCCAGA AGCTAGAAGC AAGCACTTCC TCCTAACCGA GTTTTTGAAA	100
20	GACTAAGGGA AAGAGAATAG AGAAGGGATA TTCCCATCTA CCGGGGAAAA	150
	GATGCGCAGT AACAAACCAT CTAGGGAGAC AGCCTTCTAA CAG	193
25	(2) INFORMATION FOR SEQ ID :1072:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 175 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1072:	
	AAAGCACCTT CCCCTCGCTG AGCTCCAGGG GGCCCAGATA GGCCACGCGC	50
	AGCTCCAGCA TCTTGGAGAG CTGCACGTCA TCTGCCGCGT CGTAATCCTC	100
40	CACTCTGCAG CCATAGGCCC CACTCTGGCC CCGGGTCACT CCCTCCAGGG	150

	TCAAGTTCCC CTCGAGATTC ACATC	175
	(2) INFORMATION FOR SEQ ID :1073:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 339 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
10		
	(xi) SEQUE CE DESCRIPTION: SEQ ID :1073:	
15	AGTGCCCTAC TCTTTTCCCA AGAAGGGTCA AAGCCTACAA TATCATCAGG	50
	GGGCATGAAG CACATTAATT TGCAGTGGCT GCTTCATATG AGGAGGTATG	100
20	GTGGACAGGC TAATTTTTCC TTGAAAATGT GGCTTCTTCA ACTCCTTTCA	150
	AATTTAGGAT GGAATACTTC CTGAAATAAA AACTGGGCTT TATGCAGGAT	200
	TCTCTTTGAA AATTCTTGTA TGTCCAGAAC AAAAGATAAA ACTAATTGTA	250
25	TTCCTCACAT TCACAATCCC CATTGGTCTG AAGTCACGTG ACACAGAGCA	300
	TCTATATAGC ACATAGTGTT TAAAGACTAA TGAATGCAA	339
30	(2) INFORMATION FOR SEQ ID :1074:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 172 base pairs	
	(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double	
.	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1074:	
40	ATTAATTATG CGGTCCTCCT CCTGGCAGCT GGACACCAGT TTGAATCTTC	50

•	CTTTGAGCTC CGGAAAGTTG GTAATTACAA CTTGATATTT CTACATGGAA	100
	ATCAAGAAAC TCGGACCCAA CTTGGTGCAA AGACGGATCT CCGCCGATTC	150
. 5	TGACGGCTCT CCAGGTTTTG TC	172
	(2) INFORMATION FOR SEQ ID :1075:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 299 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1075:	
20	AGAGTAGGAA GAGGGAGGG AACAGGCATC TAAGATAGAC TTTCTCCATC	50
20	TGTTGGGAGC CTGGGCAAGT AGGAAAGAAG CCTTTTTCAT ACACTTCAGT	100
	CGTATGACTG AGCTGCTTGG CAGGGCACTG GAAACGACGA ACTCGCGCAG	150
25	CCTGCAAATG AGACCACTCT CATTTCTCAG TTTCGATTTG ATTCACTCAC	200
	TAGTAGTTAG GTAAATACGA GCTCTATGTG ACTCAAGGAA TGTCAGGCTG	250
20	GGGCAGGTGG CAAAAGCTAC AGTGATCGAA ATTCACGTTG CTACTGATG	299
30	(2) INFORMATION FOR SEQ ID :1076:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 283 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :1076:

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	GCCCTCATCG GCGATACTGG AGGTTCGCTT TCTCAACCCT GTGGGCTTCA	50
	CCCCAGACAC GCCCTGAATC GTTTCATGTT CCAGCATGCC TGAGACAATC	100
5	ATCGACTGAA GGATGTTCTC TAACACCCGC ACGAGCTGCC GGCAGATCTG	150
	AATGCCCAAG TCACTCAGCA CCTGCCGATA CTCAGCCAGG TCAAAATCGG	200
10	CGAGGTAGTG CTCATGCCTG GCGAGACGTG TTGTGCTTAA TGAAGCCCTA	250
10	TCATTCGAAG TATTGCTATG AGCAGTGCGA AAA	283
	(2) INFORMATION FOR SEQ ID :1077:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 297 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
20	(b) TOPOLOGI: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1077:	
25	ACCAATCAAG TACACTAAAT TAGAATATTT TTAAAGTATG TAACATTCCC	50
	AGTTTCAGCC ACAATTTAGC CAAGAATAAG ATAAAAACTC GAATAAGAAG	100
30	TAAGTAGCAT AAATCAGTAT TTAACCTAAA ATGACATATT AGAAACAGAA	150
	GATATTACGT TATGCTCAGT AAATAATCAA GAGATGGCAT CGCGTAAGAA	200
	GGAGCCCTAG ACTGAAAGTC AAGACATCTG AATTTCAGGC TGGAAAACTA	250
35	TCAGTATGAT CTAAGCCTCA GTTCTCTNGT CTGCAAAATG AAAGCAC	297
	(2) INFORMATION FOR SEQ ID :1078:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 291 base pairs(B) TYPE: nucleic acid	

(C) STRANDEDNESS: double

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(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :1078:	
	AATCTTTTAA TCAATCGAAA CCTTAATAAT TAGGACTGAT AATAGTGATC	50
10	AGTGATTGAA CCTTTATTAT TTACCAGCTA ATATAGTAGG CCCATAAATA	100
	GGTTATATCA TTCGTAGTCA CAATAACCAC ATACATCACA CACCATGACG	150
	TAGCGCTACT ACCCATACCT GCTAGCAGTC AAGGTTCAGA TAATCATAAC	200
15	ACGCCCAACA TCTCATTGAT AGTGAGTTAT CCAAACAGGA ACAATCTCAA	250
	GTTTATATCT AAAGCCCATG TTCTTTTGCT TAATATTAGA G	291
20	(2) INFORMATION FOR SEQ ID :1079:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 136 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1079:	
30	(may beginned believed to be the control of the con	
50	AGTCACAGCC CCTATACTCC CTCTACACAT TAACCACAAC ATAAGCGGGG	50
35	CTCACTCACC CACCACATTA ACACCACGAA ACGGGTAATC TAACACGAGA	100
	AAACACCCTA ACGTTCATAC ACCCCATACA CCATTA	136
	(2) INFORMATION FOR SEQ ID :1080:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 300 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :1080:	
	CCAAGGTCGC CTGTGTGCTA GTCACGACCA TTAGGATCCG AAGAAGAGAT	5
10	GATGACTACC CTAAAAGTAA GGTCTGTGAA CAGCCTGTAA TGGGACGTGA	10
10	GCTGCGGTAT TAAAAAAATC AAGAATGGAA GCGTTCCTCA ATTGTCGTTG	15
	AGAATCATAC CAACACGGCA GATGCAACCA TGAAAAACGC AGCTGCGTAT	20
15	CGCGCGTTTT TCATGGTTCG CATCTGCCGT GTATGCAATG ATTCTCAACA	25
	CACATTGGAG TCACGCGGCC TGCGTAAGAG TATGAAGGTC TTCCTGTAAA	300
20	(2) INFORMATION FOR SEQ ID :1081:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 219 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1081:	
	GTTAATGGTT TTTTCATACA TATGAGACTG AGCGGTCAAA GTTTTACTAA	50
35	AGTCTTTATG ATCTTTAATT AATACTCCAA GACATCCGAG TTTGGCAGAT	100
	ATTGGATGAG ATTTGTTTTG CTCCTTACTT TCTTTGTATA CAGCCAAGCC	150
	TGAAAATCTC TAGACATTTG CTGAAATTGA TGAGAGCATG CACAGGACGA	200
	CTGAAGGTGC TGGACATGA	219
40	(2) INFORMATION FOR SEQ ID :1082:	

549

(A) LENGTH: 360 base pairs

(i) SEQUENCE CHARACTERISTICS:

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1082:	
10	(XI) DEGOTION DEGOTE TO THE TO THE TOTAL	
	ATTTTGGGAA AGTGAGCATG AAGAAGGGAC TCAGAGCTGC CAGGTACCCG	50
	AGTCTCAGGC TCTGACATCT CTTGGGGCCC CCTTCTGCCA CAACTTCTTG	100
15	CCACTTCACG GACTTGAATT ATGTCCCGCG CCTAAAAAAA AGATTGGCCT	150
	GCAGCACAGG CGTGTATCCT CTCCAAAAAG CTGCTGCTCA TTTCTGGCCC	200
	CATCTGCTGC TATCTTTGCC AGTCAGCCAT CACAGTTTGG CATCATCAGA	250
20	GTCTCAGCTA GAGGGAGCGT GTCATTTCTG CCTTAGTGGT TTGCCTGCGA	300
	CCTGACCAGG GCAAGACCAG CTGGGATGTC AAGTGACATT TTGGGAACTT	350
25	GTCGGAAGTT	360
	(2) INFORMATION FOR SEQ ID :1083:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 250 base pairs	
30	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1083:	
	CATACATATG AGACTGAGCG GATCAAAGTT TTACTACAAG TCTTTATGAT	50
40	CTTTCAATTA AATACACTCC AAGACATCGA GTTTGGCAGA TATTGCGCCC	100

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•	GCCGTTTTGC TCTTCTTATC TTTGTATCCA GCCAAGCCTG AAAAGTCTCT	150
	AGACATTTGC TTGAAATTTG ATGAGAGCTT GCACAGGCCG ACTGAAGGAT	200
5	GCCGGACATG ATTCTCTGCT TTCTGGTTCA ACAAAAAAA AAAGTTCCAG	250
	(2) INFORMATION FOR SEQ ID :1084:	
10	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 261 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1084:	
20	TNCTAGATAC NTCCCTCTGT CTCACATTCA TAGTGTGTTC TTGTCTAGTG	50
	TATGAAGTCT CACNCAAGGA AAGTGTNCAG GCAGAGTTTG GGGAGAGTGA	100
	AAAAAGTGAA TGGCCTATAT NTGCTCTNTT GGGTGNTCCA NCCATTATTG	150
25	GGGTGAACCC TTTCAGCTTT TTCCTAAAAA TTTGAAAAGA NTTTTTTAAA	200
	AAATTAAAAA GAGGATTTTT AAAAGGAATA TCTTGTTCAA AATTTNTTAA	250
30	GTTTTAATAG G	261
	(2) INFORMATION FOR SEQ ID :1085:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 260 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :1085:

	GCAATCCATA AGTGTCCTTA TCTACAAAGT GAAAAGTTGG ACAAGATATT	50
	CTTCATGATC TTTTTCGATT TTAAAATGTC ATGCAATTTT AGAGAAAAGC	100
5	TGAAGGGTCA CCCAATATGG CGCGACACCA AAAGACAAAT ACGAGGACAA	150
	TCACTTTTC ACTTTCCGCA AACTATGCCT GGACACTTCC TTGGCGAGAC	200
	TTAATACACC AGACAAGAAC ACACTATGAA TGCGAGACAG AGGGAGACAG	250
10	AGGCGARATA	260
	(2) INFORMATION FOR SEQ ID :1086:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 213 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1086:	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :1086: AAGACGTGGA TTTGCTGGAA GACACGGATT TCCTGGAAGA CCTGGATTTT	50
25		50
	AAGACGTGGA TTTGCTGGAA GACACGGATT TCCTGGAAGA CCTGGATTTT	
25	AAGACGTGGA TTTGCTGGAA GACACGGATT TCCTGGAAGA CCTGGATTTT TCGGAAGCTA TGGATTTGAG GGAAGACAAG GATTTTCTGG AAGACATGGA	100
	AAGACGTGGA TTTGCTGGAA GACACGGATT TCCTGGAAGA CCTGGATTTT TCGGAAGCTA TGGATTTGAG GGAAGACAAG GATTTTCTGG AAGACATGGA TAATCTGGAA GACATGACTT TGTCGGAAGA CGTGGACTTG CCGGAAGACA	100
	AAGACGTGGA TTTGCTGGAA GACACGGATT TCCTGGAAGA CCTGGATTTT TCGGAAGCTA TGGATTTGAG GGAAGACAAG GATTTTCTGG AAGACATGGA TAATCTGGAA GACATGACTT TGTCGGAAGA CGTGGACTTG CCGGAAGACA CGAATTTCCT GGAAGACCCG GATTTTCGG AAGCTATAGA TTTAAGGGAA	100 150 200
30	AAGACGTGGA TTTGCTGGAA GACACGGATT TCCTGGAAGA CCTGGATTTT TCGGAAGCTA TGGATTTGAG GGAAGACAAG GATTTTCTGG AAGACATGGA TAATCTGGAA GACATGACTT TGTCGGAAGA CGTGGACTTG CCGGAAGACA CGAATTTCCT GGAAGACCCG GATTTTTCGG AAGCTATAGA TTTAAGGGAA GACAAGACGG ACT (2) INFORMATION FOR SEQ ID :1087:	100 150 200
30	AAGACGTGGA TTTGCTGGAA GACACGGATT TCCTGGAAGA CCTGGATTTT TCGGAAGCTA TGGATTTGAG GGAAGACAAG GATTTTCTGG AAGACATGGA TAATCTGGAA GACATGACTT TGTCGGAAGA CGTGGACTTG CCGGAAGACA CGAATTTCCT GGAAGACCCG GATTTTTCGG AAGCTATAGA TTTAAGGGAA GACAAGACGG ACT (2) INFORMATION FOR SEQ ID :1087: (i) SEQUENCE CHARACTERISTICS:	100 150 200
30	AAGACGTGGA TTTGCTGGAA GACACGGATT TCCTGGAAGA CCTGGATTTT TCGGAAGCTA TGGATTTGAG GGAAGACAAG GATTTTCTGG AAGACATGGA TAATCTGGAA GACATGACTT TGTCGGAAGA CGTGGACTTG CCGGAAGACA CGAATTTCCT GGAAGACCCG GATTTTTCGG AAGCTATAGA TTTAAGGGAA GACAAGACGG ACT (2) INFORMATION FOR SEQ ID :1087:	100 150 200
30	AAGACGTGGA TTTGCTGGAA GACACGGATT TCCTGGAAGA CCTGGATTTT TCGGAAGCTA TGGATTTGAG GGAAGACAAG GATTTTCTGG AAGACATGGA TAATCTGGAA GACATGACTT TGTCGGAAGA CGTGGACTTG CCGGAAGACA CGAATTTCCT GGAAGACCCG GATTTTTCGG AAGCTATAGA TTTAAGGGAA GACAAGACGG ACT (2) INFORMATION FOR SEQ ID :1087: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 256 base pairs	100 150 200

(xi)	SEQUENCE	DESCRIPTION:	SEQ	ID	:1087:
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5	TCCCAGGCAC CCGCTGAATT TCTGAGGCCT TGCTTAAAGC TCAGAAGTGG	50
J	TTTAGGCATT TGGAAAATCT GGTTCACATC ATAAAGAACT TGATTTGAAA	100
	TGTTTTCTAT AGAAACAAGT GCTAAGTGTA CCATATTATA CTCGACGTCG	150
10	ATCATTTCTC AGTCCTATTT CTCAGTTCTA TTATTTGAGA ACCTAGTCAG	200
	TTCTTTAAGA TTATAACTGG TCCTACATCA AAATAATAGA AATTACGTTT	250
15	TTTTTT	256
	(2) INFORMATION FOR SEQ ID :1088:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 264 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :1088:	
	TTGCTTAGAA CGGAGCTAGC AAGACAAAAA TACTTCAGTT GGCATCTCCC	50
30	TTAAAGCACA TCCCCAAACG CGGGTCCTGG CCCCAGACAG GGAGACCAGG	100
	GCTCTGACAG TGACAGGTTC TTCCCTCTGA AAAAAGAATA GAAGAGGAGC	150
35	TCCTCCCTAA CCCACAGATT CCCAGGGCAG ACCCTGGGAG GAGGTGCTGA	200
	AACACAGAAG AGAGTGTGTC TTCCCCAACC TCTACCAGAC AGTAGAGAAA	250
	CTGAGGCGAG AGGC	264
40	(2) INFORMATION FOR SEQ ID :1089:	

(i) SEQUENCE CHARACTERISTICS:

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(A) LENGTH: 157 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(D) TOPOLOGY: linear 5 (xi) SEQUENCE DESCRIPTION: SEQ ID :1089: 10 GACCTGGAAT TTGTTTTCGT CTGTTCAGTA GACTCCGATT TCAGAATATG 50 TCGGAATTTC AGACTCCGGA ACTTTTGAGA ATGTCATTAC AGGAACTTTG 100 TTTACATACC GAGCTGTTAG CCCCAGTCAC TGGGTCCGAA ATTACGCCGA 150 15 157 TACCGAC (2) INFORMATION FOR SEQ ID :1090: 20 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 366 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID :1090: 30 GCATATACCA AAAAAGGACA AACAGATAGA AGAGTCATCT CAGTGTGTAA 50 CGAGGAAAAG ATTTATCTCC CATCCTCTGA TCCTCCATAT GATATCTGAT 100 AGCGAAGATG ACAATAACCC CTTGACTCTT CACGAAAACT CGATGAGAGA 150 35 GAAACTTGAA AAGTCAGAAA ATAAGTTCAT ACCGCAATTA ACCTTTTGGT 200 CAAGTAATGG AAACTTTTGA CTACTAGTGT AAGTCAAAAG ACAAAGGACT 250 40 CCAGCAAGAT GAGAGATTTC TCTATTTTGT AACGAGTAGT CCACCGATCG 300 TCATCAAAGA GAGAGAATGA ACAACTACGA AAGTTTAAGG GAAAAAAAAA 350

	AAAAACATA GATGTT	366
	(2) INFORMATION FOR SEQ ID :1091:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 305 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1091:	
15	GGTCTGAATC ATGAAAAAGC CCATAAGAGA GATACAGTGA CTCCAGTTTC	50
	AATCATATTA CAGGAGATGA ATCTGTTGCT CTCCCATTTT GCTCTTGTCA	100
	CACCATATGA AGACATCAAA AAACACTTAA GGATTCGAGA AAGAGAACAT	150
20	CTTTTGTTAA AGAAGAGAAT AAGATTTTGG AAGAAAAAGT AATAGCAAAT	200
	TTGAAGAAGA AACAAGTTAC GTAGGGACGA GAACAAGTAA ATAAGGCCTA	250
25	TCATGCATAT CGAGAGGTTT ACATTGATAG AGATAATTTG AAGAGCAAAT	300
	GGACA	305
30	(2) INFORMATION FOR SEQ ID :1092:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 237 base pairs(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :1092:	
	AAATGGAAGT TGAACTGAGT GTGGTTTCCA GTACAGGGCA TCTGGCCACC	50

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	TTCACCTCAG TAAATACTGC TGATCGACTC TCTCTGGCTC TGGCTGTCCT	100
	GCCAGAGACA GCCAAACACA GGAGACATGA CAAATTACTA TCATCTTTTG	150
5	CTTCTTTATT TTTATTATTA TTATTTTTCT TTTTGTGGAG AACAGCGTCT	200
	TGCTGTATTG CCCAGCCTGA TCTCAAACTC CTGGGCG	237
	(2) INFORMATION FOR SEQ ID :1093:	
10	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 420 base pairs(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1093:	
20	AGAAATTTAT TGCCTCACAG TTCTGGAGCC TGGAAGTGCA ATATCAAGGT	50
	GGAGACAGGG TTGGTTTCCT CTGGAGGCCA TAATGAAAGC ATCTGTTCCA	100
25	GGTCTCTGTC CTTGGCTTGT AGAAACACGC ATTCTTCTGG TGGATCCACA	150
	CAGTCTTCTC CATGTGTATC CTTCCTTCAG TTTCCCTTAT AGGACACCAG	200
30	TGATGTCAGA TTAGGGATCG AACCCAACAA CCTCATTTGA AGTTACTCAC	250
	CTGTTTGAAA ACCCTATGTC CAAATACAGT TATAGTGTAA GGAACTAGGA	300
	CTTAGGGCTT ACAAATATGG AGTGGGGCAT CATCCAGACC ATACCATTTA	350
35	AATTGCAGGG TTTCTCCCA ATGTGAGTTA CATACACACA TTAAGGTTTG	400
	TGGGATTCAG AAAGGTATAC	420
40	(2) INFORMATION FOR SEQ ID :1094:	
	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 192 base pairs

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(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1094:	
	GTTTCTTGGG TAACCTCCCC TCCTTAATCC TTCTGGCATA GGCAGACTCA	50
10	CAGCAGGTAC CCAGTAGAAG GTAAGGTGGC TGATCATTTT TCCATAGGAG	100
	GTCTCCATGG CACACAGGGT AGAAAGTGCA TTCTGTGAAT TAGAGGCAGC	150
15	AGAGCATGGC AGCTAATGGA AACTGGCTCT GGGAGGTCAA AT	192
	(2) INFORMATION FOR SEQ ID :1095:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 228 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
-	(xi) SEQUENCE DESCRIPTION: SEQ ID :1095:	
30	AGAGAGCTTA ATAAGACCTA ACTACAGGCA AACCTGACTG GAACGTGAGT	50
30	ATCTGTGGTC TGGTGTGGAA ATAGCTCTCT AGCCCCATCT CCCTCCCC	100
	ATTGTCCACC CCCATCCTCC TTACCACGAA ACACATTTTT CACCAGCATT	150
35	GCCAAACCAC TTGGGATTCC TGCGCATGGC TTTGCTTAGT TTGCTCTTCT	200
	GCTTCTTGGA TACCTCCTTC AGGAAATC	228
40	(2) INFORMATION FOR SEQ ID :1096:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 198 base pairs	

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(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1096:	··
10	ATTTTTTATG GAAAAAGGGG GATAATGCAA AATAGCAAAA ATTGTAAACA	50
	AAGTTAAAGA TTATCTTCAT CTAAACCTTA AGCTGACAAT TTAAAACACC	100
	TTGTGCATAA TGCAGAAAA AACTGTCCGT TTGACTTCAC TTTCATTCAC	150
15	ACTGCTCCCT ACGCATGAGA AAGACCAGAT GTCTGGTTTC AGAGTATT	198
	(2) INFORMATION FOR SEQ ID :1097:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 118 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1097:	
30	TAGAGAGAAG TTGATATATG AAGATAGGGT GGACAGGACT GTGAAGGAGG	50
30	CTGAAGAAAA ACTGACTGAA GTGTCACAGT TTTTTTCTAC AAAACTGTGA	100
	CACTTCAGTC AGTTTTTC	118
35	(2) INFORMATION FOR SEQ ID :1098:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 138 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :1098:	
_	AAAACTGACT AAAGTCANTG TGTAATACGA AAACCGAACA CTCCAGCAGT	50
5	CCTATTTTAT NTNTTCCAAC CTAGNNCACC CAGGTGACGC NNGGGACTCG	100
	TCNCAGGTGT TTNGNACTTG CCGCCCGACN GGCNAAGG	138
10	(2) INFORMATION FOR SEQ ID :1099:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 151 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :1099:	
	ACTCCACCAC TGGGNCCGCC ATGTTTTGGG TNGGNGCAAT GCGCTGTCTG	50
25	TGAGCGCCAN TCTAATTGTA TTNGGACTGC ACGGGTCCGT ACACTGACTG	100
	ACACTGGGCT ACCTCGCCCG AAAATGNGAA CACCGCTCAA TATCGNTGCG	150
	G	151
30	(2) INFORMATION FOR SEQ ID :1100:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 201 base pairs	
	(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :1100:	
	TAGCAATAGG CTATAACATA AGCCGAGGTA TAGGCTACAC TAGCTAGGTT	50

•	CGTGTAAGTA CACTCTATAT TGGCACAACA TAAAATTAAC TAGTGACGCA	100
	TTTCTCAGAA TGCATCCCCA TCGTTAAGTG ACACAGACTG TCCCTCATAT	150
5	CACCGGAGGA CTGGNCCAGG ACCTCCTGGC GGCACCAAAA TCCACGAGCG	200
	С	201
10	(2) INFORMATION FOR SEQ ID :1101:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 212 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(4, 20002000 000000	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1101:	
20	(XI) SEQUENCE DESCRIPTION: SEQ ID .IIUI.	
20	TAGCAATAGG CTATAACATA TACCGAGGTA TAGGCTACAC TAGCTAGGTT	50
	CGTGTAAGTA CACTCTATAT TAGCACAACG ATAAAATTAA CTAGTGATGC	100
25	ATTTTTCAGA ATGCATCCCC ATCGTTAAGT GACACATGAC TGTCCCTCAG	150
	TATCACTGGA GGACTGGGNC CAGGACCTGA CCTGGTGGTA CCAAAATCCA	200
	TGAGGCNGNA AT	212
30	(2) INFORMATION FOR SEQ ID :1102:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 218 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :1102:

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	CGGTAGCAAT AGCTATAACA TATAGCCGAG GTATAGGCTA CACTAGCTAG	50
	GTTCGTGTAA GCACACTCTA TACNNGCACA ACATAAAATN AACTAGTGAT	100
5	GCATTTCTCA GAATGCATCC CCATCGTNAA GNGACACATG ACTGTCCCTC	150
	AGTATTACTG NAGGACTGGN CCAGGACCTC CCTGGGGTAC CAAAATCCAN	200
10	GAGTGGAAAT TCCANCAT	218
10	(2) INFORMATION FOR SEQ ID :1103:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 207 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	\cdot	
20		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :1103:	
	(XI) SEQUENCE DESCRIPTION: SEQ ID :1103:	
	GTAGCAATAG GCTATAACAT ATACCGAGGT ATAGGCTACA CTAGCTAGGT	50
25	TCGTGTAAGT ACACTCTATA TTAGCACAAC GATAAAATTA ACTAGTGATG	100
	CATTTTCAG AATGCATCCC CATCGTTAAG TGACACATGA CTGTCCCTCA	150
30	GTATCACTGG AGGACTGGGN CCAGGACCTG ACCTGGTGGT ACCAAAATCC	200
30	ATGAGCG	207
	(2) INFORMATION FOR SEQ ID :1104:	
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 259 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
40		

	(xi) SEQUENCE DESCRIPTION: SEQ ID :1104:	
	GGCGTCAAGT GGCCCAATCT AACAGCTCCA GGGTAGCCAC AACCATCGTG	50
5	ATGGATTGCC ATTATTGTGT GCTAGTGGCT AGAGGTAGAC CCAATAGAAC	100
	TCTGCCCCAA CAGGGCAACA GCCAAGCTCA ATTCTCCAAG CCCCCTGAAC	150
10	AGACCTTCCA CATCCAGGAG AAGCTGTTGT TGTCTAGAGC TACTTAGTGT	200
10	CAGAATCCAG GCCAGCTTGG CTGCTTGATG CGACTGGCTA TAGGATTNGN	250
	GTGNAGGCC	259
15	(2) INFORMATION FOR SEQ ID :1105:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 230 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :1105:	·
	ACATGACCCC TTGGACTGAA GGCGCTCAGT AGTAAAGGAG TGTCATGCAG	50
30	GTCAACACAT GTCGCACATG GACCACAAAG CCTGCCACCA GCAGGATGCA	100
50	CGGGGACTTC TGGGAGGGG TGGACAGGAT ACTTATCTGT GACTGGAATG	150
	CAGGCGAGAG GCGGAGAAGA GAGTGAAGGA TAACTCATAG AGGGGGCAGC	200
35	ATTTGTTTCG NGTTGAAAGA GGCAGAAAAT	230
	(2) INFORMATION FOR SEQ ID :1106:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 163 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :1106:	
	ACATGNCCTG GACTGAAGGT GCTCAGTTAG TAAGGGAGTG TCATGCAGGT	50
	CAACACACGT CGCACATGGA CCACAAATGC CTGCCACCAC AGGATGCACA	100
10	GGACTTTTGG GGGGAGTGGA CAGGTATTAT TGNGACTGGT GAGGTGAGAG	150
	GTNAGAGGGG GCT	163
15	(2) INFORMATION FOR SEQ ID :1107:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 182 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :1107:	
	ACNTGATGAT TGCCATTATT GTGTGCTAGT GGCTAGAGGT AGACCCAATA	50
20	GAACTCTGCC CCAACAGGGC AACAGCCAAG CTCAATTCTC CAAGCCCCCT	100
30	GAACAGACCT TCCACATCCA GGAGAAGCTG TTGTTGTCTA GAGCTACTTA	150
	GTGTCAAATC CAGGCCAGCT TGGCTGCTTG AT	182
35	(2) INFORMATION FOR SEQ ID :1108:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 214 base pairs(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :1108:	
_	CCCCTGGACT GAAGGCGCTC AGTAGTAAAG AGTGTCATGC AGGTCAACAC	50
5	ATGTCGCACA TGGACCACAA AGCCTGCCAC CAGCAGGATG CACGGGGACT	100
	TCTGGGAGGG GAGTGGACAG GATACTATCT GTGACTGGAA TGCAGGCGAG	150
10	AGGCGGAGAA GAGAGTGAAG GATAACTCAT AGAGGGGGCA GCATTTGTTT	200
	CGNGCCTTGA AAGA	214
	(2) INFORMATION FOR SEQ ID :1109:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs	
20	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :1109:	
~ -	ACATGGCCCC TGGACTGAAG GTGCTCAGTT AGTAAGGGAG TGTCATGCAG	50
	GTCAACACAC GTCGCACATG GACCACAAAT GCCTGCCACC AGCAGGATGC	100
30	ACAGGACTTT TGGGGGGGGT GGACAGGTAT TAT	133
	(2) INFORMATION FOR SEQ ID :1110:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs	
35	(A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		

(xi) SEQUENCE DESCRIPTION: SEQ ID :1110:

	GCATGACCCC ATGGCACTGA AGGTGCTCAG GTTAGTAAGG GAGTGTCATG	50
	CAGGTCAACA CATGTCGCAC ATGGACCACA AATGCCTGCC ACCAGCAGGA	100
5	TGCACGGGGG ACTTCTGGGA GGAGAGTGCA TAGGATACTT GTCTGTGACT	150
	GGAATG	156
	(2) INFORMATION FOR SEQ ID :1111:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 282 base pairs	
15	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
13	(b) TOPOLOGI: Tinear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :1111:	
	GGCGCTCANT GGATCCAATA CACCAGACTC CCGGGAGCGA AAACGCCCGC	50
	AGGTGCCTCA AAGAACTTAA AACAGAACTG CCATTAGACC CCACAATCTC	100
25	ATNAAGGATG TTATAGATAT ATCCAAAAGA AAATAAATCA TTCTTCAAAA	150
	AGACACATAC ACTAACACGT TCATGGAGCA CTATTCACAC AGCAAAGACT	200
30	CGATCAACTC ACACACTCAT GAATGCGGAT CGAAATAGAA GATGTGGTAT	250
30	GCATACACCA CGAAATACTA CGAGCCATAA AA	282
	(2) INFORMATION FOR SEQ ID :1112:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 181 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		

	505	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1112:	
	TAATTAGTTT AACCACTGTG GAAAGCGTTG TAGGGTCTCA AAGACTNAAA	50
5	ACAGAACTGC TTAGACCCCA CAATNTTANG AGCGGATGTT ATGATATATT	100
	CAAAAGGAAA TAAANNGNCN TGTNAAAGAC CATACACNAT NGTCCATCGG	150
	AGCCCGTATN CACGCAGCTT GTCATAACTA T	181
10	(2) INFORMATION FOR SEQ ID :1113:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 278 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :1113:	
	ATCCAATGAC ACCAGACTCC CGGGAGCGAA ACGCCCGCAG GTGCTCAAAG	50
0.5	AACTTAAAAC AGAACTGCCA TTAGACCCCA CAATCTCATN AAGGATGTTA	100
25	AACTTAAAAC AGAACTGCCA TTAGACCCCA CAATCTCATN AAGGATGTTA	100
	TAGATATATO CAAAAGAAAA TAAATCATTO TTCAAAAAGA CACATACACT	150
	AACACGTTCA TGGAGCACTA TTCACACAGC AAAGACTCGA TCAACTCACA	200
30	CACTCATGAA TGCGGATCGA AATAGAAGAT GTGGTATGCA TACACCACGA	250
	CACTCATGAA IGCGGAICGA AAIAGAAGAI GIGGIAIGCA IACACCACGA	230
	AATACTACGA GCCATAAAAG GCGAAATC	278
35	(2) INFORMATION FOR SEQ ID :1114:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 125 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID :1114:	•
	ACCTGCAAAC TTTTTCTGTA AAGACCAGAT AGTAAGTATT TTATGCTTTG	50
5	TGAGCCATAC AGTTTTTGTT GCAACTAGTC AACTCTCAAC TNACGTGGAC	100
	AGCATGTAAA GAACGAGAGT GACTG	125
10	(2) INFORMATION FOR SEQ ID :1115:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 157 base pairs	
	(B) TYPE: nucleic acid	
15	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :1115:	
	GTAGCGACCG GCGCTCATGG AATTCCGGGA CCTGCAAACT TTTTTGAAAG	50
25	ACCAGATAGT AAGTATTTTA TGCTTTGTGA GCCATACAGT TTTTGTGCAA	100
	CTAGTCAACT CTCAACTCAC CGTGGACAGC ATGTAAATGG ATGGGAGTGG	150
	CTGCCGG	157
30	(2) INFORMATION FOR SEQ ID :1116:	
	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 123 base pairs	
	(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID :1116:	
-	(no) ongoing product from Bry ID (1110)	

CCTGCAAACT TTTTCTGTAA AGACCAGATA GTAAGTATTT TATGCTTTGT

	GAGCCATACA GTTTTTGTTG CAACTAGTCA ACTCTCAACT NACGTGGACA	100
	GCATGTAAAG AACGAGAGTG ACT	123
5	(2) INFORMATION FOR SEQ ID :1117:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 125 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1117:	
	ACCTGCAAAC TTTTTTTGTA AAGACCAGAT AGTAAGTATT TTATGCTTTG	50
20	TGAGCCATAC AGTTTTTGTG CAACTAGTCA ACTCTCAACT CACCGTGGAC	100
20	AGCATGTAAA TGGATGGGAG TGGCT	125
	(2) INFORMATION FOR SEQ ID :1118:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 125 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1118:	
35	ACCTGCAAAC TTTTTCTGTA AAGGACCAGA TAGTAAGTAT TTTATGCTTT	50
	GTGAGCCATA CAGTTTTCGT TGCAACTAGT CAACTCTCAA CTTCACCGTG	100
40	GACAGCATGT AAATGGATGG GAGTG	125
40	(2) INFORMATION FOR SEC ID .1119.	

(A) LENGTH: 148 base pairs

(i) SEQUENCE CHARACTERISTICS:

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

, 5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1119:	
	ATTAAGCTTG ACACATCTGT GTTATCACGC ACTGAAGACA GGAAGCAGTT	50
	CACTGAGTCA GCTGGCTTCC AAGCTTACAC AGAAGGCGAT AAGTCACTAT	100
15	CAAAGAGCCA ATGAGAATCT TCTTATAGAA TAACCTGGGC CCAAGTGA	148
	(2) INFORMATION FOR SEQ ID :1120:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 240 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
•	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1120:	
	The second of th	
30	AGAATAACAG AGCCAAAGGA CTAATAAAAT CAATGAATCN TGGTGAGACT	50
	AATCAAGAAA AAATAGCACC AACAACAATG AGGAGAAAAT GGAAAAAGGG	100
	CAGAGTATTT CAACGATTAC GAGAGGGCAA ACCAATCAAC GAATGATTCT	150
35	TAAGCCTTCA GTTTGCCCTG TAAGCAAACT GAAGACGTGC AAGTCATCCT	200
	TTGCCCTGGG AGAGTTAACT TAACCCACAG GGACAACTAG	240
10	(2) INFORMATION FOR SEQ ID :1121:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 254 base pairs	

569

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
-	(xi) SEQUENCE DESCRIPTION: SEQ ID :1121:	
10	AAATGGGGAG AATCAACAGA GCCAAAGGAC TAATAAAATT AAGAATCCTG	50
	GTGAGACTAA TAAGAAAAA TACACCAACA ACAATCCGAG AAAATGGAAA	100
	AAGGGCAGAG TATTTAATGA TACGAAGATG GGCAAACCAA TCAATGAATG	150
15	ATTTTTAAGC CTTCACGTCT GCCCTGTAAG CAAACTGAAG ACGTGCAAGT	200
	CATCCTTCGG CCCTGGAGAG TTAACGTTNC CCAAGGGGCA ATGAGAAGGG	250
20	ACAG	254
20	(2) INFORMATION FOR SEQ ID :1122:	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 253 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1122:	
	AAACGAGGGG AGAATCAACA GAGCCAAAGG ACTAATAAAA TCAATGAATC	50
35	NTGGTGAGAC TAATCAAGAA AAAATAGCAC CAACAACAAT GAGGAGAAAA	100
	TGGAAAAAGG GCAGAGTATT TCAATGATTA CGGAGAGGGC AAACCAATCA	150
••	ACGAATGATT CTTAAGCCTT CACGTTTGCC CTGTAAGCAA ACTGAAGACG	200
40	TGCAAGTCAT CCTTTGCCCT GGGAGAGTTA ACTTAACCCA CAGGGACAAC	250

	GAG	253
	(2) INFORMATION FOR SEQ ID :1123:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 210 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1123:	
15	AAATGGGGAG AATCAACAGA GCCAAAGGAC TAATAAAATT AATGAATCCT	50
	GGTGAGACTA ATAAGAAAAA ATACACCAAC AACAATCCGA GAAAATGGAA	100
20	AAAGGGCAGA GTATTTAATG ATACGAAGAT GGGCAAACCA ATCAATGAAT	150
	GATTTTTAAG CCTTCACGTC TGCCCTGTAA GCAAACTGAA GACGTGCAAG	200
	TCATCCTTTG	210
25	(2) INFORMATION FOR SEQ ID :1124:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 231 base pairs	
30	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1124:	
	AAATGGGGGG AGAATCAACA GAGCCAAAGG ACTAATAAAA TTAATGAATC	50
40	CTGGTGAGAC TAATCAAGAA AAAATAGCAC CAACAACAAT CAAGAGAAAA	100
	TGGAAAAAGG GCAGAGTATT TAAATGATTA CGGAGACGGG CAAACCAATC	150

	AACGAATGAT TCTTAAGCCT TCATGTTTGC CCTGTAAGCA AACTGAAGAC	200
	GTGCAAGTCA TCCTTTGGAC CCTGGGAGAG T	231
5		
	(2) INFORMATION FOR SEQ ID :1125:	. •
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 89 base pairs	
10	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1125:	
	AAGTCCCATC AGCAACCCGT TTTTTACCAG ATGTCACTCA AGAATGCGCC	50
20	CGTGGCCCTC CAGTTCCTGC GCACTAAGAG CGTCCCGCT	89
	(2) INFORMATION FOR SEQ ID :1126:	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 205 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1126:	
	AAGAAACCCG AGACMCCAAC TAATCCCAGA ACAGCTAAAA CCAATAAAGA	50
35	ACCAAAACTT CACGACCACT TTCCTGAGGA CCCTGCTGAG TGCTCATGAC	100
	ACCANTACTG ACANTTGTAG CGGTANTACA TACANTGATT TANTANGCCT	150
40	ATGCTACTGG ACACATGCCC ACACAATAAT ANTCANRTGT NTYGTTAGGC	200
	CTACT	20:

(2) INF	TORMATION	FOR	SEQ	ID	:1127:
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	(2) INFORMATION FOR SEQ ID :1127:	
5 ·	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 151 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1127:	
	GCAAGGCCTG GCCGACAACA CCCTTATTGC TAAAGTAAAT AATGNCGCGC	50
15	GGGGCCTGGA CCACCCTCTG GAAGAAGATT GTACCTTGGA GCTTCTCAAG	100
	TCTGAGGATG AGGAAGCTCA GGCAGTGTAT TGGCGCTTTA GTATCACATA	150
20	A	151
	(2) INFORMATION FOR SEQ ID :1128:	
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 237 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1128:	
	GAGCACCCCA GCCCATAACA CAGAACTCGT CCCCCTACCC CCCTCAGCAA	50
35	GCCGGAGAGG CTAGCCCAAG TAATCATAAY AACAGCCGCC CGAGAGCAGC	100
	CCCAGTAGCA GCCCCATGGC CGGGCGGAAC ACCTACATCG ACAACCTCAT	150
40	GACAGACGAG ACCTGCCAGG ACGCAGCCAT TGCGGGCTGC AAGGCCTCRC	200
	CCTTCGTCTG GGCCGCCGTC CCCGGAGAAA CGCTCGT	237

	(2) INFORMATION FOR SEQ ID :1129:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 126 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1129:	
	GCCTCGTGGA AGTGACATAG CCTTTAAACC CTGCGTGGCA ATCCCTGACG	50
15	CACCACGTGA CGCCCAGGAA AGACAGGGCG ACCTGGAAGT CCAACTACTT	100
	CCTTAAGATC ATCCAACTAT AGGATG	126
20	(2) INFORMATION FOR SEQ ID :1130:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 246 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1130:	
	GCCATCTTCT GTAACAAAAT AAATAGTGTC AAGCACTAAA TATATGCATG	50
	AATGCATCAG CAATAAGATG ACAATCAAAG AATGCTGTGA AGATTGGCAT	100
35	CAAGATGTTA GCAGCATACT GCAGGACTAG GCTTAGAAGC CTACCTGCAG	150
	TTTATTTGCA AGGATTTTTC TTTCGRGGGC GGAGGGGAGA GAAAAGTAAA	200
40	TGTGCTAACT TCGGATACTT GCCCTTATAA AGAATTCCTT YGTATC	246
	(2) INFORMATION FOR SEQ ID :1131:	/ x

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 273 base pairs(B) TYPE: nucleic acid

5.	(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(b) Ioloboli Illical	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1131:	
10	CGAGGATCCG GGTACCATGG CAAGTCTCAT GAGGCTATTT ACCGAATTTA	50
	TCCTCTGTCT GACCATGATT TTTTCCCTCA AATACAACCA CTCCTCGACT	100
15	TTTCACCCTC AAAGTATAAA AAGTATGAAA NATAAACAAG CTCTTGCACT	150
	GTACACTTAG AAGTGTACAA TTAAAGCATT ATAGAGCTAT CTACACACCG	200
20	ATAAATCCCA TCGAATCTTG AATAATCCAT CAATACGTAG AACGCAAGGG	250
	TGCAGACAGA ACTAAAACCA ACT	273
	(2) INFORMATION FOR SEQ ID :1132:	
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 329 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1132:	
35	GAGGATCCGG GTACCATGGT CTGTATATCT GTGCTTCCAC TTCTCGGAGG	50
	TGGTAGAGGG GAGGCTGTCC TCTGGTCAGG AGAATCCTAT TCAGTGCTCC	100
40	CTTAGACATT CTTCCAGGCA GGATCAAACT CAAAGGAAAA GGAATTTGTG	150
	AAGCAAACCA TGGCTTTGTC ACAGTAAAGT AATTGTCACT CTCAACCCAG	200

	AATGTGTGAA GCGCTGCAGG GAGAAGCTTC TCTTCCAGGA GAGCAATANA	250
	AGCCAATGTA TCTGACCCTT GCTTYGATGA GAGTTAATAA TAAGTATTAT	300
5	ATTTCTGTTT GTTAAAAAGT TCAGAATTT	329
	(2) INFORMATION FOR SEQ ID :1133:	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 24 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1133:	
	CCCCGAGCTA GTTGTCCCGA CCTG	24
20	(2) INFORMATION FOR SEQ ID :1134:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 297 base pairs	
25	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1134:	
	GAGGATCCAC AAACCATGGA ACACTCTCGC GGCTGCCACT CCCCCATGAC	50
35	CACCCTACAG GCCCTAACCC CAGCCCCTCA CGTTATCGTC CAGCCACAAA	100
-	TAGCTGCCGC CCTGAGATCT CCACCTCAGA CCCTCTCCCG AAGCCCACAG	150
40	CGGCCCTGC CGGGCACCCC AGCTTCCTCG CAGGCACCAA AAGCGCAGTT	200
	CCAGGAATCT CTACCCTAGA GTGATCCGGC GCCAGTTGCC AGTTAAGGGA	250

	CCAAACCTCG CCAGAAGGCT TCTTTTCGGG TTGATCGCCA TCTATTY	29
	(2) INFORMATION FOR SEQ ID :1135:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 93 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1135:	
15	GCCGCTTTAC TGCTCAGTTC GGAGCTACCG CTTCGAAAGC AACAAAAAAG	50
	CNTTTGCAAA TGAAACGAGA TTGCTGAATT GCGTACACCG AGA	93
20	(2) INFORMATION FOR SEQ ID :1136:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 334 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1136:	
30	(XI) SEQUENCE DESCRIPTION: SEQ ID :1136:	
	CGAGGATCCG GGTACCATGG AGCTTCACAC GGGTCTTCTT GGTCTCAGGG	50
	TTGTGGGAGA TAACGGTGGC ATAGTTCCCT GATGCCCGGG CCAGCTTGCC	100
35	ACGGTCTCCA GGCTTCTCCT CCAGGCAGCA CACGATTGTA CCCTCAGGCA	150
	TGGTGCCCAC AGGGAGCRCA TTGCCAATGT TGAGCTGGGC CTTCTTGCCG	200
	CAATACACAA ACTGGCCCGT GNGAATGCCC TCGCGGGCAA TGAACAGTTC	250
40	CGCCCGCTTC TTAAACCAAG ACAGATCCCG GAAGGCCGCC TGGGCAAGGG	300

	GCCCCTCRAA CCCGGGGCTA TACACGTCAA AATC	334
	(2) INFORMATION FOR SEQ ID :1137:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 199 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1137:	
15	CGAGGATCCG CATACCATGG CCCCCATCTT ACGAGCCCTT ACTCCTCATG	50
	ATGAAGAAAC TCCAAACCCT TTGACAGCTC CTCGGGGTNA AACCTGGNAY	100
	AAAGCTGACT GACCAGGCTC CATGAAATCT CCCATCTCCA TRATGTACCT	150
20	CCTTGRTGCC ATCTCTATAT AAAGMGAACC AGTCCTAAAA TCAAACACT	199
	(2) INFORMATION FOR SEQ ID :1138:	
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 304 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1138:	
35	CGAGGATCCA AATACCATGG CGCTCCCTCC TCCCGAGCGC CGCTCCGCGT	50
	GGCACCCGGC TCGCTCCGAG TTTCAGGCTC GTGCTAAGCT AGCGCCGTCG	100
40	TCGTCTCCCT TCAGTCGCCA TCATGATTAT CTACCGGGAC CTCATCAGCC	150
40	ACGATGAGAT GTTCTCCAAC ATCTACAAGA TCCGGGAGAT CGCGGACGGG	200

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	TTGTGCCTGG AGGTGAAGGG GAAGATGATC AGTAGGACAG AAGGTAACAT	250
	TGMTGACTTG CTCATTGGTG GAAATGCTTC CTCTGAAGGC CCCGAGGAAG	300
5	AAGG	304
	(2) INFORMATION FOR SEQ ID :1139:	
10	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 277 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1139:	
20	GAGGATCCGG GTACCATGAG AAACTTTGAA GCCAGAGATT TTAAACAATC	50
20	AAGGCACTTG AAAACATTAA GTATATGTAC AAATGTGCAA GTAAAACAAA	100
	CAGCTGTACC AACGAGTAAC AAAGAAACAG TAAATCTTCA TCTTAACAAC	150
25	CTTTAATAGT TATCTAAATG CAGAGTTTGT TTATGAAATG AACCAAAGCA	200
	GTTTGTCATT TCTTACTATA AAATACCGAA AATAAAGTGC AAAACTTAGC	250
30	CACTACTGGC TAAAGAAACT AAGTAAA	277
30	(2) INFORMATION FOR SEQ ID :1140:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 208 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :1140:

	CGAGATCCGG GTACCATGGC CTCCTACAGG TGCCGTGGAG CCACGCCCAA	50
	AAGAGAGCTC CCTGAGAAAC TCGTTGATGC CTTGCTCACT GAAGGAGCCT	100
5	TTTAGCAGAG CAAATTTCAT CTTGCGTGCA TTGATGGCGG CCATGGCGGG	150
	GTACCCAAAC CCTCCAATTC CCAACGCGGT CTCAAGTTCA GACTGGGCTC	200
	CAGCTTCT	208
10	(2) INFORMATION FOR SEQ ID :1141:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 274 base pairs	
15	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1141:	
	CGAGGATCCG AGTACCATGG CCTCGAACTG AGCATCAATA TATTCTACTG	50
25	CCAGCTTATA ACTGTCATCT TTATTCATAT GGTCTCCAAA TCCCACGATG	100
	monach management of company company company company company	150
	TCAACAATGG TTAACTTCAG CCGTACATTG CTTTCCTGAA GCTCATAACT	150
	TCTGGCTTTT AACCGAACAC CTGGTTCATT GTGAGTAGCT GGGTCACTTT	200
30	1013GC1111 AACCGAACAC CIGGITCAII GIGAGIAGCI GGGICACIII	200
30	TANATTTGGT GTTGAACAAA GTGTCCATTA ACGTGGATTT GCCAATGCCT	250
	GTCTCACCAA TACAAAGGAT GTTG	274
•		
35	(2) INFORMATION FOR SEQ ID :1142:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 226 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
40	(C) STRANDEDNESS: GOUDTE	

580

	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1142:	
· 5	GCCTGCACAT TGACTGTGGG AAACTCGGAA ACAAGCTCAC ATCTCCCCGT	50
3	GGGAAACCTT CTAGCAACAG GATGAGTCTG CAGTGAACTG CAGTTGCCAC	100
	CTTCCTCTAT GCGGAGGTCT TTGTTGTGTT GCTTCTCTGC ATTCCCTTCA	150
10	TTTCTCCTAA AAGATGGCAG AAGATTTTAA AGTCCCGGCT GATGGAGTTG	200
	TTAGTGTCCT ATGGTAACAC CTTCTT	226
15	(2) INFORMATION FOR SEQ ID :1143:	
12	(;) SEQUENCE CUADACTEDISTICS.	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 168 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :1143:	
25	RGGRTCCRNG TGCCRTGGGG YNTNNCTAGR CRGCRGGYAA GGTCCACCRC	50
	TGRCRCGNTG NCNGTGAGGR CRTGNRGGNC CRTGCGAGTG GGCTTACCGN	100
30	TAGGTTCGGG AATGACCTTG CYMACGNCNN YGACAGCTAA GTRGRNGCRG	150
	GNANGRTGNN GTGGAGRG	168
35	(2) INFORMATION FOR SEQ ID :1144:	
J J	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 256 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	, ,	

(D) TOPOLOGY: linear

·	(xi) SEQUENCE DESCRIPTION: SEQ ID :1144:	
	CGAGGATCCA AATACCATGG AGCTGACAAT GTCAGCTCAA TTTGAAGTAT	50
5	TCTTGAGGGA CCTTTTGCTC ATAGGCTTTA ATTCTGTCTG TGACTTTTGC	100
	CAGGATTTGA GGAAATCGAC TGCCTTCACT CTTCCCTGAA ACTTTGAAGT	150
	CCACATAAGG GCTTTCTCAT CAAATGGCAG AAATTATAAT TTATAAACCT	200
10	AAACAACCTT ATAGTGTTTT CGCTTTGAAT TGTATGAATT CTTAGAACTG	250
	AGAAGT	256
15	(2) INFORMATION FOR SEQ ID :1145:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 184 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :1145:	
	AAACACAAGG CTAAAAGTCA CTAAAGGTGA CACAGTACCA ACCCCGGGAA	50
30	GGTTGAGTTC TGTGCTGCTA CCTTCTACTG ATGGCGAATA GACTATTCTG	100
	TACCCTGTGA TGGGAGCCTG GGGTCTGCTC CAGCAAACAA CAATCGAGGT	150
	GTAATCAACT TGGTCCACAG TCGGGTCAGG AGGG	184
35	(2) INFORMATION FOR SEQ ID :1146:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 221 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :1146:	
. 5	CGAGGATCCG GGTACCATGG CCCAAAGAGT GAATGATGTA TCCCAGGGCG	50
5	CAGTCCACAA CTTGCGCAGT ACCTTCCCAG ATGACAGCCT CACTGGACCG	100
	ATTTCCATCC ACGAAGATGA TGCTAAGAAG CACCATGAGC AGACCCAGCT	150
10	TGGGTGAGTC CTTAGTCGTT CCCAGTATGC CTGCATCAGT GGGCTCTAAG	200
	GTGCTGAGAA GAATGCACAA G	221
15	(2) INFORMATION FOR SEQ ID :1147:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 255 base pairs(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :1147:	
	CGAGGATCCA AATACCATGG GAGTCAAGCA TGCCTCGATA GCCACAGATT	50
•	TACAAGAATT ACCTACAGTT TGCTTCTTNG AATCGACATG CAAATCTGCT	100
30	TAAGGATTCT CACATTCAGG ACAGAGAACA AATTTTTTAA TGAATCCATC	150
	CAACAGGTCT TGNAGTTTAT TCGCCTCATG AGATCCATTG ATAATGGAAC	200
35	RRTMATTCTT AACANCAAAC NGMGMCTGNN NTCCCRNCTT ATAACCMAAA	250
	GATNT	255
	(2) INFORMATION FOR SEQ ID :1148:	
40	(i) SEQUENCE CHARACTERISTICS:	•

(A) LENGTH: 230 base pairs(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

	(D) TOPOLOGY: lin ar	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1148:	
	CGAGGATCCA GGTACCATGG ACGATTCACA GCCCCTGGCC ACTGGCCATT	5
10	TCCAGTGGTA GGGAGCACAC TGRTCACATT CGAGACCCAC CACGTTGAGC	10
	AGACAAAGGC AGCCTCCACT CTCCTCGTCA CTCAACATGT ACCTCCGTCC	15
15	CCCAGGATGT TGTAGTTATA GCAATAGCAG CCCTGCGGTT GACGTAGGTG	20
	AGTCGGTGAC GCCCGATTTG GATCGGGTGT	23
	(2) INFORMATION FOR SEQ ID :1149:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 223 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1149:	
30	GTGCCGTTGG TCCTGTGCGG TCACTTAACC AAGATGCCTG AGGAAACCCA	5
	GACCCAAGAC CAACCAATGG AGGAGGAGGA GGTTGAGACG TTCTCCTTTC	10
35	AGGCAGAAAT CGCCCAGTTG ATGTCATTGA TCATCAATAT TACCNACTAG	15
33	AACAAAGAGA TCTTTCTGAG AGAGCTTATT CAAAATACAT TAAATGTATT	20
	GGACAAATT CGATATAAAA GCT	22
40	(2) INFORMATION FOR SEQ ID :1150:	

(i) SEQUENCE CHARACTERISTICS:

584

(A) LENGTH: 272 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1150:	
10	CGAGGATCCG AGCACCATGG AGAGACTATG ACGCTCAACA AGAATCACTC	50
	GGAGGGCGAC GGAGTGATCG TCAATAACAC CGAGA TC CTAATGCCCT	100
15	ATGATCAÇGT GGAACTAACA TÜDAATGACA TGAAGAACGT GCCAGAAGCC	150
	TTCAAAGAGA CCAAGAAAGG CGCTGTCTAC CTTACTTCTC ATTGAACCAT	200
	CTTTATGTCC AAGAACAAGG ATGCGATGGG TATTTCGTGA NGCTATTTGA	250
20	NMTRAGGRMA GNCTGNAAGG TM	272
	(2) INFORMATION FOR SEQ ID :1151:	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 140 base pairs	
	(B) TYPE: numleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1151:	
35	TGAGGATTTA TAGATTANAG CTAGAGTTCA CATTTTATGG ATTACAACCA	50
33	AAAAAAACCT GAAAAAGAAA AAAAACAAAA AAGCTCAAAA GCAATCACAA	100
	GGATAGTTGA ATCCCTCTTT AAACCCCCAA AGCAACCCCC	140
40	(2) INFORMATION FOR SEQ ID :1152:	
	(i) SEQUENCE CHARACTERISTICS:	

274

585 (A) LENGTH: 208 base pairs

5

10

15

20

25

30

35

40

GAMGCCNMAC AGGGCTRGGG ACTG

(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :1152: AAGGATCCGG GTACCATGTA TTCCCCCGGT ATCAGCAGAG GCGTGTACGG 50 100 GCACTGCTTT AAAACTGGGA AGGAGGAAGA CGAGGCCAGG GAGCCGGAGG GTCACCAAGG TAGATTTCCA GCAGCCTAGT CCAGCTGAAC GCTTTCCAGC 150 CTTGCTTTTT AGCAGCTTTG AGGAAAAGTA TAGTGATCCG GATGTGAAAC 200 208 TTTCATTG (2) INFORMATION FOR SEQ ID :1153: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 274 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID :1153: CGAGGATCCA GGTACCATGG GGTGGATCCG CCGGGCATAG CCACCCTGGA 50 TGGTGGCCAT GGTGAGGCCG ATGAGGAAAA ACATCTTCCC CTGCTGTAGG 100 CTACTGAACT GGAAGCGCTG GTGTGTGAGG AAGCTCAACG TGCACTCCAG 150 GCCCAAGAAC AGGAAGAGGT AGAGGAAGTA GACTMGGCCC AGGCGGCCAG 200 GCTGATGAAT TGTCTCCAAA GGGTGAGACC TGGCCACGAG CCATANCCCA 250

	(2) INFORMATION FOR SEQ ID :1154:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 267 base pairs	
5	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1154:	
	GAGGATCCAC CGACCATGGA ACACTCTCAA TGGCTGCAAC CACCCCGTGG	50
15	CCCCCTACC AGCCCCAATC TCCAAACCCC GCACGTCGAT CATGACGCCA	100
	CCAACAGCTG CAGCCCTGA GATCTTCACC TTAGACCCTC TCCCGAAGCC	150
20	CGCAGCCGCC CCTGCGAACC CTCCAACTCG TTCACACGCG CCGAAAGCCT	200
	ATTCCCAGGA CTCTCTGCCC CTACGTGACC GNCCCTAGCT GCTAGTCGAG	250
	AATCCGAACT CCGCTCC	267
25	(2) INFORMATION FOR SEQ ID :1155:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 231 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1155:	
	CTCAAACCCC GNTTCCCCCC TAATAAGAGC AACTAAAAAA CTTCTGATAA	50
40	CCACAATAAA AGCGTGCATT TGAGCACAAT TCAAAAGCCA ACCCCTTCGA	100
	AGGNGCTTCT GATGNAAAAG GAGTTATGTT GAACGAAGCA GGAGTTAACG	150

	CTACACAGTC AAATTGTGGC ATTAGGACGC GCGAGCGGGC TAGCTGCGGC	200
	CGTCTANCAA GGCAACGGCC GCCTTTGAAT T	231
5	(2) INFORMATION FOR SEQ ID :1156:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 128 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1156:	
	GCGCGAGCAC AGAGCCTCGC CTTTGCCGAT CCGCCGCCCA TCCACACCTG	50
20	CCGCCAGCTC ACCGTGTATG ATGATATCAC CNCGCTCGCC ACCAACRACG	100
20	GCTCYAACMT GTGCAAGGCC GCCTTCAA	128
	(2) INFORMATION FOR SEQ ID :1157:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 126 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1157:	
	(XI) SEQUENCE DESCRIPTION. SEQ ID .115/.	
35	GCCGCAACAC AACCCAGGGA GACTCAAGNC CACAGGGGCC CCCCGGCTCT	50
	GAGGGATTCA CCGTCGCCTC CCGGTCCCCG AAGGCCCACA AGGGCAGAAA	100
40	GGTGAGCCTT ATGCACTGCC TAAAGA	126
• •	(2) INFORMATION FOR SEQ ID :1158:	

	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 101 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1158:	
	AATAACCATA ACTGCAAAAA CCCAAMCAAA AAAAAAGGGG GAACAAAAAA	50
	CCCCAHACCC CCAAAAAAAC CAGAAAAAAC CACAAAAAAA AACCCCTCCT	100
15	T	101
	(2) INFORMATION FOR SEQ ID :1159:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 172 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1159:	
30	GAGGATCCGG GTACGGGCAG GGTGAGAGCC TGGGGTCCAC CGATAACCGG	50
	GAGGGAGATG GCGTTCTTGA GCAGAGGGGA TGGGCCGTCC GGGAGCTCCC	100
	CCCACACAC GTGGCGGTGC GGGTGAACTG GAAGGGGAGG TCGAAGGTGC	150
35	CATCTTCTTC AGGCCCCTCC AC	172
	(2) INFORMATION FOR SEQ ID :1160:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 235 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

589

(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID :1160:	
	GAGGATCCAC ATACCATGGA ACAGCACCAC AAAAATAGCC ATTTTGATCA	50
10	TGGTTATTTC CCAGGACCAC ACGATTTGCC TACGTCACTG GAAGGCTATG	100
10	TGTCTGTTCT GAGCCTTCCC ACTCTCCTAA AGGGCAGATG AAGATCAGAG	150
	CTTTGACCCT GTGATGCCAT TTTAATCAAC CCTGCTTGGT TTTAGAGGAT	200
15	TGCTCCCGTG GGTCACTTGA GGCAGGCTCC ACCTT	235
	(2) INFORMATION FOR SEQ ID :1161:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 284 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID :1161:	
20	GAGGATCCAC CAACCATAGA AAGTAAATAC TGTATAAAAA GCTCCAGCTG	50
30	TTAGATACAA ATGCAAAACG CTTCCTAAAA AACGGCCTGA AAAAAAACTC	100
	ACAGACAATG CCAAACTTTA TAGGTCTGTA TTTTCCTTTA TACAAAATGC	150
35	CCTCAAATTA AAAAGTAATT CCCATATAGC AATAAAGTCC ACATCTCTGG	200
	ATTACCTATA ACCGGTATTA TGGGGTGTGT TTATACTGCC TAGAATGTTA	250
40	ACCCTCATAA AGCCTTAAAA GTACATTTGT GAAA	284
40	(2) INFORMATION FOR SEC ID :1162:	

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 287 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1162:	
10	(02, 22, 22, 22, 22, 22, 22, 22, 22, 22,	
	GCTCACATAA ATTTCTTCAC CGACCCTTTT CCTTCCAGCT TCCTTACTAT	50
	The state of the s	٥,
	AAAAAACCCC ACA AATA TGTTCATCAT CATCCATACT AACCAACCCC	100
	In the state of th	10
15	GTCACCATCT CAATCAGCAG CAAGTCCTAC TCTCTGTGGG TGAAACCTTG	150
	CIONCONTOI CAMICAGONO CANGICCINC ICICIGIGGG IGAAACCIIG	150
	TTACCACCTC TAGGGGCAGA CCCCTTTTCA GATATATTCA AGAGTTTAAT	200
	TIMOSACCIC TAGGGGCAGA CCCCTTTICA GATATATICA AGAGTITAAT	200
	ATCCTCCCAC TATAGCGCTT CGACTTTGTA TCTTCCTCTA TGGCTACCAA	25.0
20	MICOTOCOMO IMINGOCCII CONCIIIGIN ICIICCICIN IGGCINCCAN	250
	ATTCTGTCCG TTGATAAGTA CTGGCTCTAA ACCATGC	202
	MITOTOTOGO ITOMIANGIA GIGGETETAN ACCATGO	287
	(2) INFORMATION FOR SEQ ID :1163:	
	(2) INTOMINITION TON SEQ ID .1103:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 122 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(b) Toroboti. Timear	
_		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1163:	
	(,	
35	GAGGATCCAA AAACCATAAA ATTCATCATC CCCAGCAGGT GCNCTAGCTA	5.0
	The state of the s	50
	TACTITATIA CAGCAAARCA CAACCACACG CIGAMCIANM ICGIATAGAI	100
		100
	AAACACCAAT CATGGGTCGG CC	100
40		122
	(2) INFORMATION FOR SEQ ID :1164:	
	/-/	

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 142 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1164:	
	GCGCGGGTCT GTCTCTTGCT TCAACAGTGT TTGGACGGAA CAGATCCGGG	50
	GACTCTCTTC CAGCCTCCGA CCGCCCTCCG ATTNCCTCTC CACTTGCAAC	100
15	CTCCAAGACC ATCTTCTCGG CCATCTCCTG CTTCTGAAGC CT	142
	(2) INFORMATION FOR SEQ ID :1165:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 219 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(C) SIRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) ToroLogi: Timear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1165:	
30	TATTCCCCCG GTATCAGCAG AGGCGTGTAC GGGCACTGCT TTAAAACTGG	50
	GAAGGAGGAA GACGAGGCCA GGGAGCCGGA GGGTCACCAA GGTAGATTTC	100
	CAGCAGCCCT AGTCCAGCTG AACACTTTCC AGCCTTGCTT TTCAGCAGCT	150
35	TTGAGGAAAA GTATAGTGAT CCGTATGTGA AATTTTCATC GCACGTAGCG	200
	GATGAGAATA GAGAACTCA (2) INFORMATION FOR SEQ ID :1166:	219
40	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 202 base pairs	
	(u) prugiu. ses pase barrs	

592

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1166:	
	01001E0010 011001E101 1100111011 010EE010E 0110E010E	
10	GAGGATCCAC CAACCATAGA AAGGAAACAA CACTTGGAGT GAACCCGACC	. 50
•	CAAGCCACTA CACCCCAGCC TAACCGACAG GTGCTAGACT AATNGTNAAA	100
	AACAACCGGA AAATAGACCC GGACGAAGAT CAAAGNTTNT CAATCCAAAC	150
15	AMMERICOCC CACCARCA CACCARGA AND AND CACCARGA CACCARGA	220
15	ATTTTAGGGG GACCAAGACC CMGGGATCAA AAACAAGGTC CACCACACCC	200
	AA	202
	(2) INFORMATION FOR SEQ ID :1167:	
20	(i) CROUDNOD OWNDACTOR	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 159 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(with Charles Decomposition, one to 1165	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID :1167:	
	GAGAAACCTA CCCAACCAAG AGGCGCCCTG CTTTGTAATG ACCTTTACGA	50
	AGACACGTCT GATACCCAAC CTGACAGAGG AAACAACAGT AGTCTGAAAG	100
35	GGACAGAATG AGAGAGGGG CTGGAGAAAG AAATGAATAA ACATGAATGC	150
	ATCTGGAGA	159
		139
	(2) INFORMATION FOR SEQ ID :1168:	
40		
	(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 211 base pairs

593

(B) TYPE: nucleic acid

	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1168:	
10	CCCTAGACAA GCCACCTGAG GAGAGGCTCG GAGCCGGGCC CGGACCCCGG	50
10	CGATTGCCAC CGCTTCTCTC TAGTCTCACG AGGGGTTTCC CGCCTCGCAC	100
	CCCCACCTCT GGACTTGCCT TTCCTTCTCT TCTCCGCGTG TGGAGGGAGC	150
15	CAGCGCTTAG GTCGGAGCGA GCCTGGGGCC ACCGCCGTGA AGACATCGCG	200
	GGGACCGATT C	211
20	(2) INFORMATION FOR SEQ ID :1169:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 211 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1169:	
30	GGATTTCCGG TCCTGGCTTT CTGATATTTC TAAAATCGAC CTGGAATCAA	50
	CCATTGACAT GTCCTGTGCT AAATATGAAT TCACTGATGC CCTGCTGTGC	100
35	CATGATGATG AGCTGGAAGG GCGCCGGATT GCCTTCATCC TGTACCTGGT	150
	TCCTCCCTGG GACAGGAGCA TGGGTGGTAC CCTGGACCTG TACAGCATTG	200
40	ATGAACACTT T	211
40	(2) INFORMATION FOR SEQ ID :1170:	

(i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 266 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
5	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1170:	·
10	GAGGATCCGC GCAACCATAG AACTCACAAC CCAGCCATAT ACCTCAGACA	50
	CAATGGAATG GGCGGAGGTC GAGGTNGACA AACCCTGAGT AATGTTGGGC	100
15	ACTTCCGCAC CGGAGCTGTT CTTACCTTTG ATAAAGTGGA TGTTATTGCT	150
	ATTAATGATC TCTTAACGGA CTTCAACTGT AAAATTNGCA TGATCTAGTC	200
20	CTATCCACCA ACGNCGAACA ATATGCTGTT GCCAMGATTG AGCACGAGCC	250
	GTTTGGGCTC AACGGC	266
	(2) INFORMATION FOR SEQ ID :1171:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 167 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1171:	
35	GGCACAACCC ACTTTGAACA ATCATGCTTC AGAAATCTGC CTGACCTTAG	50
	CTGCTGCTGC TGCTCACTTT PTTATAGTAT AACTTCGGTA GGCATACTTG	100
40	GAGAACATAT CCCACATTAG GAATTGATTT AAGCCTGAGA GTTTGAGGGC	150
	TTTAATCCTT TAAAACT	167

(2) INFORMATION FOR SEQ ID :1172:

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 232 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1172:	
	AATAAACCTC CCTATCACAG TGACCTACTA CCCGCGTGTG CTTATATAAC	50
15	TAATCCAGGA CAACCCACAA AAATTATAGC AACACACAAA CACACCGCTG	100
	ACCATAACAT GTGCGTCTTT CAAAGATGCC TTATCAACCA GAGCGATGAT	150
	TACTGAGGAT ACGCAACTCA TAAAACTCTA CTTAAAGCAA CAGGGCAGAC	200
20	GTGCGTCTGT GCCAGTCGTG AATGTGGTGA AC	232
	(2) INFORMATION FOR SEQ ID :1173:	
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 93 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1173:	
35	GAGGATCCAC CAACCATAGC CCGAAAATGT GGTAAGGGAC CCTCATCTAT	50
	CACACAACNC AGGTAAGAAG GCACCCAGCC CCATGGGCCA TAC	93
	(2) INFORMATION FOR SEQ ID :1174:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 200 base pairs	

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(B) TYPE: nucleic acid

	(C) SIRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) ToroLogi. Timeat	
. 5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1174:	
10	GCCTTTTTT ACCCGCCGGA AGCTACAGCT TTTGCCCCCC CAAAAAAACC	50
10	CCACCCTTTT ACCCACCGCG GACCCAAAAA CAGCAAAAAC CAAGGACCTC	100
	TCCCAACCC AACCCCTCT TTTTGGCCCT TCCTTCCCCC CCTCCCAGCC	150
15	CACCCCAGA CACCTCAATC CCCCAAAAGG ATGCCCTAAA CCTCTCCTAA	200
	(2) INFORMATION FOR SEQ ID :1175:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 121 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1175:	`
30	GAGGATCCAA AAACCATGGC ATTCATCACG CCCAGCAGGT GTCCCAGCCA	50
	TGACTTACCA TAGCAAAACA CAACCACAC CTAACCTGCA TCGCCTAGCT	100
	TACTGATGAT GATGTCCTGG T	121
35	(2) INFORMATION FOR SEQ ID :1176:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 26 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	



	(xi) SEQUENCE DESCRIPTION: SEQ ID :1176:	
	AACCAGACAC GCCGACCCGC TGAATC	26
5	(2) INFORMATION FOR SEQ ID :1177:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 178 base pairs	
10	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
13	(xi) SEQUENCE DESCRIPTION: SEQ ID :1177:	
	GAATCGATCT TGACCTGGCT GCCAGGAATA TCCAGCTTGT TACCGACTGG	50
20 .	TAAAGAATAA GACCGCTGAT CATAGAGTGA AGCTCCAGGA ATCAGAGAGT	100
	CTCATAGCAA ACCTCGAAAC TGAGGATGAG ATGGTTACAG ATAAAGCCTT	150
	TCAGGATGGA TTMAAGNAMG CAGAGAGG	178
25	(2) INFORMATION FOR SEQ ID :1178:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 144 base pairs	
30	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1178:	
	GGTTAAGTTT TTCATCAAAG ACTCAGGTAC CTATTATCGT TCCCTGGCGA	50
40	AACTGAGGAG AAAAGTTAAT CAACCAGGTT ACTCCCACAG TTTGCCCGTG	100
	TGTTATGCAT CAGTTATACA GGTATCCCAC CAAGTTCAAG TCAA	14

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	370	
	(2) INFORMATION FOR SEQ ID :1179:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 233 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID :1179:	
	GACCAGGGAG GAGGTTTAAT CAACTTGGAC CCCCTCCGGC CTAGCCGCCG	50
15	AGGAGGTGCA TTCGGGACAA CCACTAGGTC AGAACGCAGC CTCTCCAGAG	100
	TCCTCAGGCT CGACAACGAT TATCCTGCTG CTATCACGCT TTGATTTACT	150
20	GATCTCGCTG AAAAGACAGA CGCTTTTAGA TACCGAGTCG ATAGGGGGTC	200
	TGCGGTACTT TTCAGTAGAT AGGTGGTGCT TGT	233
	(2) INFORMATION FOR SEQ ID :1180:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 225 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(b) TOPOLOGI: Tinear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1180:	
35	CGAGGATCCG GGTACCATGG GCCGGATACA ACGAGCTATC ATTACTGCTC	. 50
	CCATGGCCAA AACCAGCAGT CCCACAATCC CCGTGAAAGG GATGAGGTAA	100
40	TAGCCCAAGG GGAAGGTATT GTCTGGAACC AGAAGCGCCC GAGCCCCCTT	150

CTTGTAGRCA AAGAGGGCGC CCAGGTGCTT GGAGCTNCTN TCCCCAATGG

	AGGTAGACGG GACCAAGATC TGCTG	225
	(2) INFORMATION FOR SEQ ID :1181:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 293 base pairs	
	(B) TYPE: nucleic acid	. •
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1181:	
15	TGAGGATTTA AAAATTCTGG AATATCTATG ATTGATCGTC AACTTTATTC	50
	GATGAATAAG CTTGATGTGG CCTAGTTTTN NGNNNNNTGG NYATGGTNNA	100
20	TCNNNTTANT TTTTTGGTTG TTGTGNATAT TATNGAATAR AMGAATRGNG	150
20	TTTAGAGTTT GGAAGCGGCN RNGCGTARMG NNACTCYACG CTCGCNNCTN	200
	TTGNNNNACA GMRGGNTCTC TNGGRTGAGT GGRTNCMGTT GGMGGNNTCN	250
25	NNNTAGCTGN NGNGAGRATC AGCTRGCTTN CTTTGNGCTN GCT	293
	(2) INFORMATION FOR SEQ ID :1182:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 252 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1182:	
40	GAGGATCCGG GTACCATGGC TCTCTCTTTC TTTTTTTCT TTTTCTTGGC	50
40	GGATGTGAGA GCTGCCTGAG ATTCAAGGTC ATCCGGCAGC TCAGTCCCCA	100

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·	CCACCTCTGT CTCTGGCTCC ACTGTGGCAT CTTGCTGTTT TTCTTTCTCA	150
	GTCTTCTCTT AGGGAGCTGC CAGAGCTGCC TGGACCTGAG AATTCATTCC	200
5	TTCTGGCTGT TGAGACCCCG TGGACTCCCC TGGATTCCAG AGNNTNATTT	250
	NG	252
10	(2) INFORMATION FOR SEQ ID :1183:	
10	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 202 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID :1183:	
	ACGAGGATCT GAATACTCTG GCCTGCAAGT AGAGGCTAAT TCGATGTGTG	50
	AAACTGTAGA TTCGGCTTAA GGTAATAGTC ATTTATAGAC TATTCAATAG	100
25	AGTCAGACTG GTCGAGGCTG GTAAGTGTAG CGGAACGGTT GCTGACTGAT	.150
	ATTGTTAGAG TGAGGCTTGT ACTGGTGTGT ATCCGTAGGT GGTCTGCAGT	200
30	GT	202
30	(2) INFORMATION FOR SEQ ID :1184:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs	
35	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

40

(xi) SEQUENCE DESCRIPTION: SEQ ID :1184:

	CAGATCCTCA GCTTTCGTGG TTCACAATTT CTTCAGTCTC TTA	43
	(2) INFORMATION FOR SEQ ID :1185:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 48 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1185:	
15	ACCGTCCTTC TGGTTCATCC TAGCAAAAAT CTCACCATCT TCTATCAC	48
	(2) INFORMATION FOR SEQ ID :1186:	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 104 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1186:	,
30	ACATCATCCG AGTCCCCTCT ACAGTGTTCA TTGTGATCGT TGCATCCCCC	50
	TGGTTTGGAA ATAAAATATA AACTGCCCGG CAAGAGATAA AATTGTATTT	100
	TTTA	104
35	(2) INFORMATION FOR SEQ ID :1187:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 76 base pairs	
	(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID :1187:	
5	CTGGTTCTGT TTCTCGCAGG TGGTAGAGGG GAGGCTGTCC TCTGGTCAGG	50
J	AGAATCCTAT TCAGTGCTCC CTTAGA	76
	(2) INFORMATION FOR SEQ ID :1188:	
10	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 42 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1188:	
20	AATAGGGCGC GATCAACTCT TAACTTTGAG GAGAACCAAC AA	42
	(2) INFORMATION FOR SEQ ID :1189:	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 253 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1189:	
35	GGCGGACGTG CGCGCCTTGT CTTCGCGGCA CCTGGGCCTG AGGTGCGTGC	50
	CTCCCGGGCC CTCGCCAGCT CCAGATGCGT GAGGAGGACT TCAGAAACCC	100
	GACTGAGAAG TGGAGCAACC CCCAGGAAGG GCCGGACCTG CCTAAATGCC	150
40	GCCAAGGCCT TTTATTTATG GCTAGTTTGC TCTCGTGAAA TACTAACATC	200
	GTTTTAATGG CACTCATCAA GTACGCAAAT GATATGATTT AACCTCGCGC	250

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	AAT	253
	(2) INFORMATION FOR SEQ ID :1190:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 252 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1190:	
15	GAGGATCCAC CAACCATAGA ACGGCCCTAC TAATGAACCA CACAAGCTAG	50
	TTGCACCACT ATAGAAACAC AAAACTACAC ATCTATACCA ATAAAAATAA	100
20	CAACTACTCC AATTGCCCAT GTGGTATTGT CGCAGACTGA AATGAATTAT	150
	GAATTTAGGT TGGTTACCAA TATCGGCATA AAATAAACTR TGTAAGGCTC	200
	AMTATGTTGA CAGTAAGCTC TTGTCAGGTG TCTAATGAGG TAAAAGCATT	250
25	TT	252
	(2) INFORMATION FOR SEQ ID :1191:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 178 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID :1191:	
40	GAGGATCCAA CAACCATAGA GCACATAAAA ACCGCCCAAC GATCTAACTA	50
	ATATACAACG GCTAACCGGG CCATTCAAAA GCTCGCCCAG ATTAAATGCC	100

•	TGCCGANAGC AAGTACATGG GGAGGATTAC TACTTCCTGG TTGCCAACCA	150
	CCCTTCCGGC TGCCCTTGTG TTGACTTG	178
5.	(2) INFORMATION FOR SEQ ID :1192:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 156 base pairs	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID :1192:	
	GGATCGGCGG TAATCGGTGA GCTCGGTGTC GGGTAAGGGA CCCAGTCCAT	50
	CGCCACCAAG CGCCAGGAAT GGGCAGCATA AGGGAAGGCT AAGGAGGACT	100
20	GCAACAGGTT AGGGCCCTGG AGATTGTATT TAGCAAGGGT ACCTGCGNNG	150
	NGGGCA	156
25	(2) INFORMATION FOR SEQ ID :1193:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 99 base pairs	
	(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID :1193:	
	ATTCTGAATC TTTAATGAAA ATCAGCCCAG AGCTTGTTGT AATACAGACA	50
	TAACTGCAAG AGCATGCCCA CAGCTTAGAG AGGTTGTACC AAATTTAGA	9.9



	(2) INFORMATION FOR SEQ ID NO: 1194	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 24 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1194:	
	NNNNTCCTTC TCCTGCGACA GACA	24
15	(2) INFORMATION FOR SEQ ID NO: 1195	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
2 5	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1195:	20
30	(2) INFORMATION FOR SEQ ID NO: 1196 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1196:	
40	AANNTCTCGG ACAGTGCTCC GAGAAC	26

	(2) INFORMATION FOR SEQ ID NO: 1197	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 26 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1197:	
	TTNNTCTCGG ACAGTGCTCC GAGAAC	26
15	(2) INFORMATION FOR SEQ ID NO: 1198	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 22 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1198:	
	GTTCTCGGAG CACTGTCCGA GA	22
30	(2) INFORMATION FOR SEQ ID NO: 1199(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 23 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1199:	
	GTTCTCGGAG CACTGTCCGA GAG	23



	(2) INFORMATION FOR SEQ ID NO: 1200	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 23 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1200:	
	GTTCTCGGAG CACTGTCCGA GAC	23
15	(2) INFORMATION FOR SEQ ID NO: 1201	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 22 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1201: CTGTCTGTCG CAGGAGAAGG AA	22
30	(2) INFORMATION FOR SEQ ID NO: 1202 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs	
35	(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1202: CTGTCTGTCG CAGGAGAAGG AG	22

	(2) INFORMATION FOR SEQ ID NO: 1203	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 17 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1203:	
	AGCTCGGCTC GAGTCTG	17
15	(2) INFORMATION FOR SEQ ID NO: 1204	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 24 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1204:	
	GCGACAGACA GCAGACTCGA GCCG	24
30	(2) INFORMATION FOR SEQ ID NO: 1205 (i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1205:	14

	(2) INFORMATION FOR SEQ ID NO: 1206	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1206:	
	CCGAGAACAC TCGAGCCG	18
15	(2) INFORMATION FOR SEQ ID NO: 1207	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 17 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1207:	
	GTAAÁACGAC GGCCAGT	17
30	(2) INFORMATION FOR SEQ ID NO: 1208 (i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
33		
40	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1208:	
	CGAGGTCGAC GGTATCG	17

	(2) INFORMATION FOR SEQ ID NO: 1209	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1209:	
	CGAGGTCGAC GGTATCG	17
15	(2) INFORMATION FOR SEQ ID NO: 1210	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1210:	
	TACGTTCGAC AAGCTTGAAT TCGCGGCCGC TTTTTTTTTT	50
30	(2) INFORMATION FOR SEQ ID NO: 1211	56
35	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 11 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1211:	

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	GCCWSCGCCG A	11
	(2) INFORMATION FOR SEQ ID NO: 1212	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 24 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1212:	
15	GGTGGCGACG ACTCCTGGAG CCCG	24
	(2) INFORMATION FOR SEQ ID NO: 1213	
	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 24 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID : 1213:	
20	TTGACACCAG ACCAACTGGT AATG	24
30		
3 E	In the above SEQUENCE LISTINGS, some sequences are preferred	
35	they fall into the category of sequences referred to hereinbefor exhibit no more than 90% homology to a human sequence known	

e The preferred sequences in these terms are all of sequences SEQ ID Nos 1 to 1193, EXCEPT FOR SEQ ID Nos:

40 85, 117, 177, 197, 223, 248, 317, 354, 355, 483, 829, 1057, 594, 595, 597, 164, 427, 420, 58, 67, 374, 373, 501, 569, 188, 550, 904, 932, 97, 89, 134, 433, 434, 357, 4, 6, 11, 336, 529, 544, 545, 549, 1037, 847,

870, 871, 872, 873, 875, 876, 579, 199, 524, 544, 513, 380, 276, 291, 615, 623, 627, 634, 635, 648, 652, 617, 619, 684, 697, 718, 720, 1127, 1145, 1148, 1164, 938, 587, 589, 588, 241, 243, 335, 61.

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CLAIMS:

- 1. A nucleic acid fragment encoding a gene product or portion thereof and comprising any one of:-
- (a) a sequence selected from SEQ ID Nos 1 to 1193;
- (b) an allelic variation of a sequence as defined in (a); or
- 10 (c) a sequence complementary to (a) or (b).
 - 2. A nucleic acid sequence as set out in any one of SEQ ID Nos 1 to 1193, or a complement or allelic variation thereof.
- 3. A sequence as claimed in claim 2 and which exhibits no more than 90% homology to a human sequence known per se.
- 4. A nucleic acid fragment comprising a portion of a sequence as defined in claim 2 or claim 3 of sufficient size such that a probe of the same size and exhibiting complementarity to said portion can hybridize to said sequence as defined in claim 2 or claim 3.
 - 5. A fragment as claimed in claim 4, wherein said portion is at least 15 bases in length.
 - 6. A fragment as claimed in any one of claims 1, 4 or 5 and encoding at least a portion of a biologically active polypeptide.
- 7. A nucleic acid sequence as claimed in claim 2 or claim 3 and encoding at least a portion of a biologically active polypeptide.
 - 8. A DNA construct comprising a fragment as defined in any one of claims 1, 4, 5 or 6 or a sequence as defined in any one of claims 2, 3 or 7, together with a control or regulatory sequence.
 - 9. A construct as claimed in claim 8 which encodes a fusion protein comprising a known protein and the polypeptide encoded by said fragment or sequence.
- 40 10. A construct as claimed in claim 9, wherein the fusion protein encoded is a cleavable fusion protein having an endopeptidase recognition site positioned between codons corresponding to said known

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protein and said fragment or sequence.

- 11. The use of a fragment as defined in any one of claims 1, 4, 5 or 6 or a sequence as defined in any one of claims 2, 3 or 7 to produce a gene.
- 12. A DNA fragment comprising a gene obtainable by the use defined in claim 11.
- 13. An expression vector comprising a fragment as defined in any one of claims 1, 3, 5 or 6, a sequence as defined in any one of claims 2, 3 or 7, a DNA construct as defined in any one of claims 8 to 10, or a DNA fragment as claimed in claim 12, positioned such that that nucleic acid sequence which encodes the polypeptide corresponding to said fragment, sequence or DNA fragment is in operable reading frame with a control or regulatory sequence.
 - 14. A vector as claimed in claim 13, wherein said vector control or regulatory sequence comprises a regulatable promoter.
 - 15. Host cells which incorporate as a heterologous part of their expressible genetic information a fragment as defined in any one of claims 1, 3, 5 or 6, a sequence as defined in any one of claims 2, 3 or 7, or a DNA fragment as defined in claim 12.
 - 16. A process for the production of a polypeptide comprising cultivating host cells as defined in claim 15.
 - 17. An antibody directed against a polypeptide obtainable by the performance of a process as defined in claim 16.
 - 18. An antibody as claimed in claim 17 and which is monoclonal.
- 19. A novel gene product or portion thereof encoded by a fragment as defined in any one of claims 1, 3, 5 or 6, or encoded by a sequence as defined in any one of claims 2, 3 or 7, or encoded by the gene comprised in a DNA fragment as defined in claim 12.

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(71) Applicant (for all designated States except US): MEDICAL RESEARCH COUNCIL [GB/GB]; 20 Park Crescent, London W1N 4AL (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SIBSON, David, Ross [GB/GB]; 37 Grimsdells Lane, Amersham, Buckinghamshire HP6 6HF (GB). GROSS, Jacqueline [GB/GB]; 47 Boxmoor Road, Kenton, Middlesex HA3 8LH (GB). HADFIELD, Kathryn, Mary [GB/GB]; 5 Carlisle Terrace, St Ives, Huntingdon, Cambridgeshire PE17 4PQ (GB). HOWELLS, David [GB/GB]; 77 Puttocks Drive, Welham Green, Hatfield, Hertfordshire AL9 7LW (GB). STARKEY, Michael [GB/GB]; 27 Creasy Close, Abbots Langley, Hertfordshire WO5 0HS (GB). KELLY, Maria [IE/GB]; 24A Oxford Road, Ealing, London W5 3ST (GB). SHAW, Diana [GB/CA]; 342 Glacier Hall, University of Calgary, 2500 University Drive NW, Calgary, Alberta T2N 1N4 (CA).

(74) Agent: BIZLEY, Richard, Edward; Hepworth Lawrence Bryer & Bizley, 2nd Floor Gate House South, West Gate, Harlow, Essex CM2O 1JN (GB).

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(54) Title: HUMAN NUCLEIC ACID FRAGMENTS, ISOLATED FROM BRAIN ADRENAL TISSUE, PLACENTA OR BONE NARROW

(57) Abstract

This invention provides a nucleic acid fragment encoding a gene product or portion thereof and comprising any one of: (a) a sequence selected from SEQ ID Nos 1 to 1193 from the attached sequence listings; (b) an allelic variation of a sequence as defined in (a); or (c) a sequence complementary to (a) or (b). The invention includes uses of such fragments, and gene products corresponding thereto.

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TERNATIONAL SEARCH REPORT

International Applications to

PCT/GB 93/01467

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Y	pages DNA sec genome	E vol. 252, 21 Ju 1651 - 1656 ADAMS quencing: express project' e whole document	S, M. E	T AL.	'Comple	mentary	1-19
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III. DOCUME!	International Application of positive of the Considered To Be Relevant (Continued From the Second Sheet)	T/GB 93/01467
Category "	Citation of Document, with indication, where appropriate, of the relevant passages	Relevant to Claim No.
Y	NUCLEIC ACIDS RESEARCH vol. 18, no. 19, 11 October 1990, ARLINGTON, VIRGINIA US pages 5705 - 5711 KO, M.S.H. 'An 'equalized cDNA library' by the reassociation of short double-stranded cDNAs' cited in the application see the whole document	1-19
Y	NATURE vol. 355, 13 February 1992, LONDON GB pages 632 - 634 ADAMS, M. ET AL. 'Sequence identification of 2,375 human brain genes' see the whole document	1-19
Y	GENE vol. 81, 1989, AMSTERDAM NL pages 295 - 306 AKOWITZ, A. & MANUELIDIS, L. 'A novel cDNA/PCR strategy for efficient cloning of small amounts of undefined RNA' see the whole document	1-19
, Y	WO,A,9302214 (MEDICAL RESEARCH COUNCIL) 4 February 1993 see the whole document	1-19

INTERNATIONAL SEARCH REPORT

	iational application No.	-
PC'	T/GB93/01467	

Box 1 Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims fees because they relate to subject matter not required to be searched by this Authority, namely:
2 Chains 5-os.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
Claims Nos because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows: See FCT/ISA/206 mailed on 29.11.93
1. As all required additional search fees were timely paid by the applicant, this international search report covers all scarchable claims.
As all searchable claims could be searches without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4: X No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims. Nos.: 1-19(all partially)
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

ANNEX TO THE INTERNATIONAL SEARCH REPORT ON INTERNATIONAL PATENT APPLICATION NO.

GB 9301467 SA 76316

This annex lists the patent family members relating to the patent documents cited in the above-mentioned international search report. The members are as contained in the European Patent Office EDP file on 02/02/94. The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report	Publication date	Patent family member(s)	Publicatio date
WO-A- 9302214	04-02-93	None	
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